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CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

OCTOBER 15 1955



THE BRITISH DRUG HOUSES LIMITED, LONDON, N.I

A TOP-SELLER from the

Potter's range of products



RESEARCH ESTABLISHES THOMPSON'S SLIPPERY ELM FOOD IDEAL IN CASES OF STOMACH WEAKNESS, ULCERS, DIGESTIVE DISORDERS.

Large scale market research into the uses of Thompson's Slippery Elm Food establishes these facts. More and more people are finding it of particular benefit in cases of stomach disorders of all kinds, especially ulcers and some effects of anxiety neuroses.

It is easy to digest, and can usually be retained by the most delicate stomach when other foods are rejected.

But its value as a food beverage is more widespread. Thompson's Slippery Elm Food is a wonderfully nourishing restorative. People find a cupful taken mid-morning relieves fatigue; taken again at night it ensures restful sleep. Its sustaining properties are remarkable. No wonder it ranks as Potter's BIGGEST SELLING LINE.

THOMPSON'S

Available in three varieties

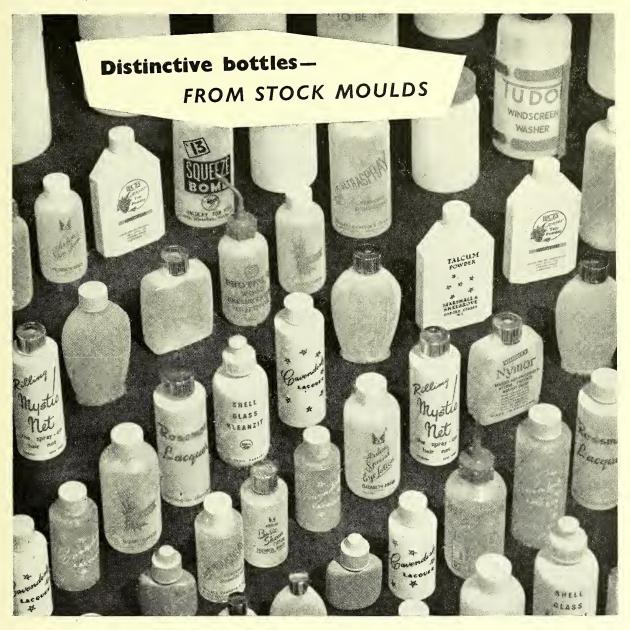
MALTED
UNMALTED
WHOLEMEAL
MALTED

SLIPPERY ELM FOOD

Orders through WHOLESALERS ONLY please!



POTTER & CLARKE LTD · RIVER ROAD · BARKING · ESSEX · Telephone : RIPpleway 3041



These bottles have all been produced from stock moulds, and individuality is obtained by ringing the changes with colours and contrasting colour printing to give your product that tailor-made packaging look. If your product needs to be sprayed, puffed, poured through a small aperture, dispensed drop by drop or just packaged attractively, then Poly-Tainer have the answer to your problems. We make these unbreakable polythene containers in all shapes and sizes from 4 cc. to 15-gallons, and the choice of colour is yours. Distinctive coloured Poly-Tainers from stock moulds means that your product can have an individually styled package without any tool costs. Of course, we undertake custom styling on request.



UNBREAKABLE POLYTHENE CONTAINERS

Enquiries to:

INDUSTRIAL APPLIANCES LTD., 21/22D Grosvenor Street, London, W.I. Tel: GROsvenor 5976/8 (P.B.X.)

Manufactured by: E. SHIPTON & CO. LTD., Ferndown Works, Northwood Hills, Middx. Tel: PINNER 1103/5 (P.B.X.)

DIFFERING FROM TAB. CODEIN. CO. B.P.

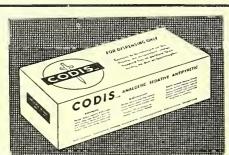
Codis contains aspirin in soluble form

COMBINED WITH CODEINE PHOSPHATE AND PHENACETIN

THE ASPIRIN contained in "Codis" forms calcium aspirin immediately the tablet is dissolved in water.

So Codis conforms with the growing medical preference for aspirin in soluble form. Codis has all the therapeutic properties of Tab. Codein. Co. B.P., but dissolves more readily and is less likely to cause gastric irritation.

The advantages of Codis, and its consistently high quality are being continually brought to the attention of doctors, and sampling facilities are available to them.



COMPOSITION

Each Codis tablet contains:—Acid. Acetylsalicyl. B.P. 4 gr., Phenacet. B.P. 4 gr., Codein. Phosph. B.P. 0·125 gr., Calc. Carb. B.P. 1·2 gr., Acid. Cit. B.P. (Exsic.) 0·4 gr.

Codis (Regd.) is not advertised to the public

DISPENSING PACK. (Purchase Tax Free.) 300 tablets in distinctive gold foils of 6 tablets each, 15/- per box.

PUBLIC SIZE. Pack of 20 tablets (in foil), 2/7 inc. P.T.

RECKITT & COLMAN LTD., HULL & LONDON (PHARMACEUTICAL DEPT., HULL)

Ferrous
(Gluconate for the treatment of IRON DEFICIENCY

FERROUS GLUCONATE has been shown to be more effective than ferrous sulphate in restoring a normal blood picture and is much less liable to cause side effects especially in the gastro-intestinal tract.

FERLUCON

Lilley et al. (Irish J. Med. Sci. July 1954) showed that 50% of cases of hypochromic anaemia of pregnancy could not tolerate ferrous sulphate because of nausea. Intolerance to ferrous gluconate, however, occurred in only 10%. Comparing the haematological response to the two haematinics these authors found ferrous gluconate to be the better by some 30% to 40%.

FERLUCON ELIXIR is particularly suitable for children and infants, and extensive laboratory investigations have confirmed its high stability. Numerous cases of fatal accidental poisoning of children with ferrous sulpnate have been reported. Enquiries instituted have so far failed to bring to light any cases of such poisoning with ferrous gluconate.

PRESENTATION

TABLETS OF 0.3G. FERROUS GLUCONATE (EVANS)
BOTTLES OF 25, 100 AND 250 TABLETS
ELIXIR, EACH FL. DR. (3.5 ML.) CONTAINS 0.3 G.
FERROUS GLUCONATE (EVANS)
BOTTLES OF 4 FL. OZ. (114 ML.)

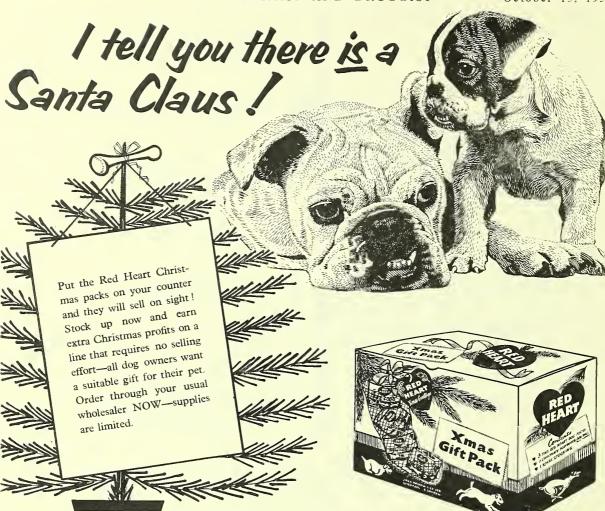
ANAEMIA

Bulk packs also available



EVANS MEDICAL SUPPLIES LIMITED

Speke, Liverpool 19, & Ruislip, Middlesex



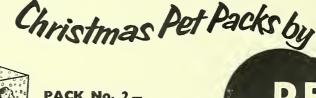
Red Heart Dog Food is rich in lean meat, liver and cod-liver-oil.

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PACK No. I-

comprising decorated carton with three 8 oz. tins of Red Heart Dog Food, a chocolate-flavoured rubber ball; Christmas stocking and greetings card.

Retail Price 4/-





PACK No. 2-

comprising gaily designed Christmas carton with two 8 oz. tins of Red Heart Dog Food. Retails at the usual price.



Stock up with RED HEART Pet Packs NOW!

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To any Formula

Our long experience of tablet manufacture is at your disposal. Exercising the strictest laboratory control throughout all production stages, we prepare tablets, coated or uncoated, to B.P., B.P.C., N.F., or customer's own formula, processing his own materials if desired. Our service includes your 'own name' labelling and packaging to meet individual requirements.

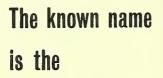
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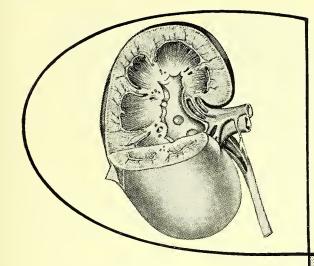
Quality, combined with a long established and widely known name, gives that great selling feature — reputation.

Dr. Page-Barker's Scurf & Dandruff Lotion has the sort of reputation that sells steadily and will go on selling.

A Page-Barker showcard (sent FREE on request) will ensure that the customer knows that you stock this tried and trusted product.



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"Mictine," the new non-mercurial oral diuretic, is distinctive in showing no contraindications. Its mode of action is believed 4 to be by inhibiting resorption of sodium ions by the renal tubules, and neither succinic dehydrogenase nor carbonic anhydrase are involved. "Mictine" is useful in maintaining an oedema-free state in any patient requiring diuretic therapy, and in the initial and continuing control of patients in mild congestive failure. "Mictine" may also be used for initial diuresis in more severe congestive states, particularly where mercurials are contra-indicated.

SEARLE

Mictine

TABLETS

The new oral diuretic for treatment and maintenance of oedematous patients

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Ethical Pharmaceuticals since 1888

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Telephone: Welbeck 1306.

Clinical trials with "Mictine" indicate that it is best administered on an interrupted dosage schedule. It may either be given on alternate days, or for three consecutive days followed by complete omission on the following four days. For either scheme the dosage is one to four tablets in divided doses with meals. Such side-effects as are occasionally experienced are usually relieved by the interrupted dosage schedules. "Mictine" is available in bottles of 25 and 100 tablets each containing 200 mg. l-allyl-3-ethyl-6-aminotetrahydropyrimidinedione.

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CHRISTMAS WRAPPING PAPER

for bright, colourful parcels MERRY CHRISTMAS DESIGN



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long-suffering...

Rheumatic conditions can cause pain which may be of long duration unless properly cared for.

ANABALM has been developed by Crookes Laboratories as a non-greasy, readily absorbed cream for use as an aid in the treatment of rheumatic and myalgic conditions. It contains Squalene 10%, β-Chloroethyl Salicylate 10%, Oleoresin of Capsicumo.1%, Menthol 4%, Histamine Hydrochloride 0.1%. In Anabalm the salicylate is presented in a form which gives gradual release of the active radicle.

Histamine has a vaso-dilator effect which helps to increase the supply of blood to the affected area. At first menthol produces a cooling effect, which is followed by a sensation of heat, and the skin temperature of the area being higher than that of the other parts of the body, the vessels become partially dilated.





Packing: 1-oz. tube 3/6 inc. P.T.

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Also in

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Heat-

sealed,

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moisture-

And

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cartons.

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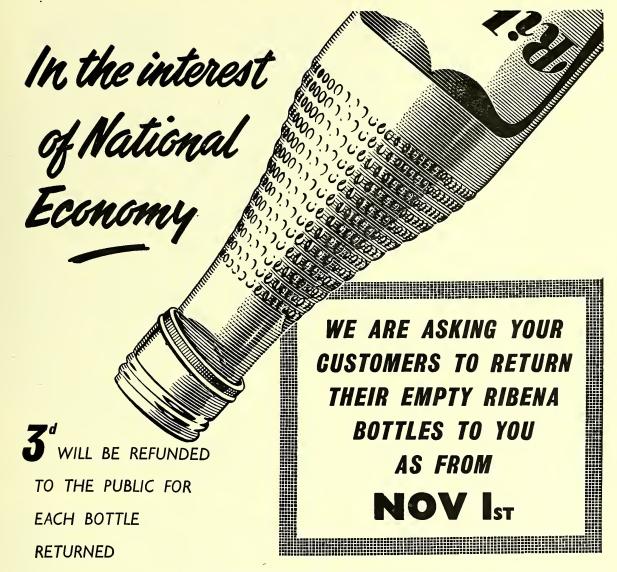
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Ribena

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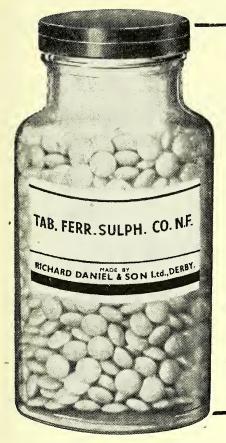
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A SUBSIDIARY COMPANY OF IMPERIAL CHEMICAL INDUSTRIES LTD





TABLETS of QUALITY

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MANSFIELD ROAD DERBY TEL. 48266 (4 lines)

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A BETTER DRESSING IN A BETTER PACK!





FLEXIBLE FIRST-AID DRESSING

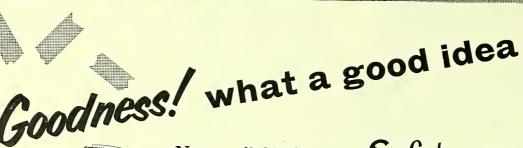
Your customers won't be slow to see the advantages of this hygienic, convenient dressing in its dispenser-type pack. They can cut off as large or as small a strip as they wish—and the unused part remains clean, untouched, yet ready for use at a moment's notice. Ask your Wholesaler for stocks of HELVIA Flexible Dressing—compact, convenient, hygienic—the modern first-aid dressing.

Made up in continuous lengths of one yard in widths of $1\frac{1}{2}$, $2\frac{1}{2}$ and 3 inches—ideal for home, sport and motoring.

Sold only through leading Chemists

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Established 1823



Now available from all Sunfresh suppliers the NEW triple-strength GLUCOSE DRINK with triple-strength sales appeal!

■ CITROZE is cheaper — it's concentrated in triple-strength! For her 3/6 your customer gets the equivalent of no less than 4 pints of ready-to-drink Citroze.

2 CITROZE is better. It contains purest energy-giving glucose is made with whole fresh lemons — can be drunk hot or cold.

3 CITROZE will be better known. Watch for powerful advertising, customer compelling advertisements and posters. There will be effective display material, too!

and above all



THE GLUCOSE DRINK

FLAVOURED WITH WHOLE FRESH LEMONS

MAKES 4 PINTS

Citroze means bigger

profits for you

You make 8/6 on purchases of one dozen! Even more with quanti-ty buying. Get your discounts by combining orders for Sunfresh and Citroze.

It's another wonderful product from the Sunfresh people—the new lemon-flavoured Glucose drink CITROZE. It retails at 3/6. Watch for CITROZE and stock up! From usual suppliers, wholesalers or write/ telephone-O.R. Groves Ltd. — (proprietors of Sunfresh) -20 Jermyn Street, London, S.W.1. REGent 7986.

the NEW triple-strength GLUCOSE DRINK made with whole fresh lemons

Goodness! how you'll sell it

made by the Sunfresh people



Of the various measures directed towards ante-natal care, none is more vital than a well-planned dietary supplementation.

Such routine however need be no arduous matter to the mother. Prenatal Capsules Lederle avoid the need for any further supplements by combining many nutritional factors in a single preparation.

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This ensures a balanced intake of vitamins, bone-forming minerals and haematinic factors sufficient to meet the nutritional requirements of both mother and child.

Prematal capsules

Each capsule contains: Vitamin A, 2,000 I.U.; Vitamin D, 400 I.U.; Thiamine Hydrochloride (B₁), 2 mg.; Riboflavine (B₂), 2 mg.; Ascorbic Acid (C), 35 mg.; Nicotinamide, 7 mg.; FOLVITE* Folic Acid, 1 mg.; Calcium (in CaHPO₄), 250 mg.; Phosphorus (in CaHPO₄), 190 mg.; Dicalcium Phosphate Anhydrous (CaHPO₄), 869 mg.; Iron (In FeSO₄), 6 mg.; Ferrous Sulphate Exsiccated, 20 mg.; Manganese (in MnSO₄), 0.12 mg.; Vitamin B₁₂, 1 microgram; Vitamin K (Menadione), 0.5 mg.

Bottles of 100 and 1,000.

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The fastest moving indigestion tablet

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Do you know that the sales of Rennies exceed those of any other indigestion tablet?
In fact, an independent survey shows that the sales of Rennies amount to nearly one-fifth of the sales of all the indigestion tablets on the market.

Every enterprising chemist feels that he must give promising new lines a trial. But he knows that it is the familiar, well-tried products that are the real backbone of his business — products like Rennies. There is never any trouble with Rennies. Consumer approval, plus

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More people get relief with Rennies than with any other indigestion tablet

P.S.

The 2/8d. size grows more popular every day.



Jumbo soap. Elephant complete with cap and cricket bat. 'Circus' pack. Retail price 1/6.

as gifts have only to be seen to be sold-so give them a

really good disp



DRYING MACHINE

Any size or type of bottle can be handled by the "Spartan" . . . with varying outputs. Easy and economical to run, occupying minimum floorspace, the "Spartan" could probably solve many of your problems.

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Grams: "POWLEY, SUNDERLAND"

For highest peak concentrations and sustained therapeutic effect



THE PALATABLE LIQUID ORAL PENICILLIN

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'ESKACILLIN' 200

'ESKACILLIN' 100

'ESKACILLIN' 100 SULPHA

'Eskacillin' 300 is available in $1\frac{1}{2}$ fl. oz. (42 ml.) bottles. All other 'Eskacillin' preparations are available in 2 fl. oz. (56 ml.) bottles. The number after the name indicates the strength in thousands of units per standard medical teaspoonful ($\bar{1}$ fl. drachm: 3.5 ml.)

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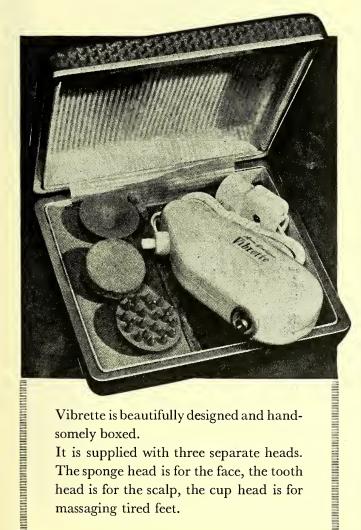
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Introducing

Ann Graham's /ibrette

Electric Vibro-Massage

for Beauty Salon Treatment at home



Vibrette is beautifully designed and handsomely boxed.

It is supplied with three separate heads. The sponge head is for the face, the tooth head is for the scalp, the cup head is for massaging tired feet.

It's new!

It's light! (weighs only 61 oz.)

It's low priced!

Here at last is a really efficient, lightweight, electric Vibro-Massage unit that retails at only 59/6.

It gives women something they dream about - Beauty Salon treatment whenever they wish - in the privacy of their own bedrooms.

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"Vibrette" will be advertised in the Daily Mirror, the beauty-conscious paper that is read by nearly six million women.

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cash in on

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with INECTO

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Now available for counter sale in all shades*

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Obtainable from your wholesaler

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A generous free samples package of Radian products is available to you and your family. We are making this offer because we believe that you cannot recommend a product with complete confidence until you have experienced its benefit yourself.

Send today for the sample Radian range

Try them. Let your family try them. Then you can recommend them personally.

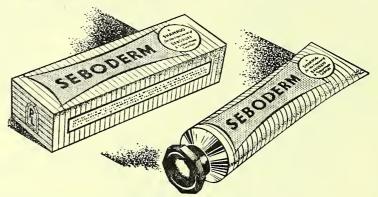
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The treatment for Dandruff and Seborrhoeic Dermatitis..

SEBODERM CETRIMIDE CREAM SHAMPOO

- * Prepared specifically for care of the scalp and hair.
- ★ Most effective in treatment of simple Dandruff and Seborrhoeic Dermatitis.
- ★ The Shampoo is pleasant to use.



SEBODERM in 3-oz. tubes, Retail Price 2s. 4d. each inc. P. Tax.

To PHARMACISTS—331 per cent. PLUS bonus I free tube per dozen.



PRIORY LABORATORIES LTD., Pyramid Works, West Drayton, Middlesex

SANCTIONED ON N.H.S. PRESCRIPTIONS (FORM E.C. 10)

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ELASTIC NET BANDAGE Supplied with ordinary National Health prescription. The fine Lastonet elastic net provides firm, constant support without restricting movement.

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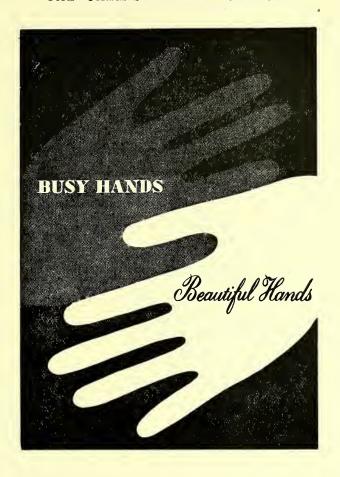
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COPPER No. 10. GOLDEN (Blonde) No. 12. AUBURN No. 14.

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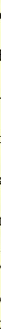
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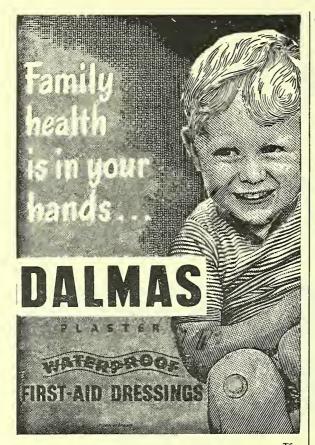
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Remember you can make 19⁷6

on an outlay of only 25⁷6

Offer closes 29th October—so order NOW



This Little Fellow ...

will bring you more business. He's making sales for DALMAS WATERPROOF DRESSINGS (the ones in the blue box). He is appearing regularly in the National Press and a delightful showcard is available on request.

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Andrews has the largest sale of any effervescing saline in the world. This is because:—

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- It is advertised by a powerful national campaign.

for INNER CLEANLINESS

"I beg cold comfort"

The "cold comfort" of our day is 'Vasylox', which rapidly relieves nasal congestion in the common cold, hay fever and similar complaints. Gentle, prompt and lasting in action, it does not stimulate the central nervous system. It is pleasant to use and so safe that children and infants may use it. 'Vasylox' is issued in bottles of ½ fl. oz., each with a separate dropper.

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Because—

QUALITY CONTINUALLY IMPROVES!

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ADVERTISING NEVER CEASES!

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Stock, Display, Recommend

Wright Layman & Umney Ltd., 42-50 Southwark Street, London, S.E.1



THE CHEMIST AND DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 164

October 15, 1955

No. 3947

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announce that as from Monday, October 17th, they will be at:—

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Volume 164

OCTOBER 15, 1955

No. 3947

Levy Allowance Cut Criticised

MINISTRY'S "ONE-SIDED" ACTION

THE secretary of the London Pharmaceutical Committee (Mr. W. F. Wilkinson) has strongly criticised the Ministry of Health's action in reducing the uncollected levy allowance (see C. & D., October 1, p. 369).

Speaking at a meeting of the Committee on September 27, MR. WILKINSON described the Ministry's action as one-sided and said that apparently the exchange of views, even if those were diametrically opposed, constituted consultation.

No agreement had been reached with the Central N.H.S. Committee, and the Ministry, hiding behind its own interpretation of consultation, could impose its will on the contractor. "This pose its will on the confractor. This facet must be carefully watched in future, and in particular at the negotiations now proceeding," said Mr. Wilkinson. Concern was expressed at the meeting at the poor response from private contractors to the dispensing costs survey. The report of the central checking bureau for March and April was considered and the Committee noted that no examination of prescriptions on which errors had been found could be undertaken by the secretary. That had always been possible when prescriptions were priced in London. It was seen that whilst the results of the check had shown very small discrepancies, that might not mean small errors in the individual accounts. The secretary was instructed to explore ways of securing and presenting to the Committee more details of crepancies.

Advertising Breach

COUNCIL RECOMMEND STOPPING £200

A "FLAGRANT" breach of the regulations relating to advertising by a company of chemists was reported on October 8 by Birmingham Executive Council. The Pharmaceutical Service Committee had recommended that a sum of £200 should be withheld from the company's remuneration. The Council decided also that the company should be severely reprimanded. In its report the Council states that a representative of the company admitted that his firm had advertised extensively and that, in addition to the words "Appliances supplied under National Health Service," such advertisements invited applications for a particular leaflet. The company contended that some members of the public were unaware of the method of obtaining rupture appliances. The chemists were unaware that the Council was prepared to supply the public with appropriate information, or that they had prepared

official leaflets for that purpose. The report says that on a number of previous occasions the company's attention had been drawn to irregular wording of advertisements and it was invited to contact the Council in future when in any doubt. The report adds that it was reasonable to assume that the advertisements had resulted in considerable financial benefit to the company.

Overseas Trade Fair GOVERNMENT POLICY DEFINED

CONTRARY to reports appearing in the daily Press on October 8, the Government will support firms organising British pavilions at fairs where that is the only method by which British firms can exhibit at all. The reports, based on an article in the current Board of Trade Journal, began by stating that the Government has no

intention of organising a national pavilion in an overseas trade fair and would offer no support to any firm which may attempt to organise one. The Board of Trade state that the article made it clear that that policy applied only to those fairs where adequate trade sections had been made available.

Drugs to Wards

LEICESTER'S NEW RULE FOR SISTERS

A SUBCOMMITTEE set up to examine how a seventy-five-year-old woman patient at Leicester Royal Infirmary came to be given five times the prescribed dose of chloral hydrate — an error which resulted in her death — has issued its report to the Hospital Management Committee. The report states that it was found impossible to trace how or by whom a bottle of the drug in concentrated form had been sent from the dispensary to the ward, owing to a time lag of eleven days between its being dispensed and its being used in the ward—and to the absence of a pharmacist's signature on the delivery slip accompanying the drug. The subcommittee was set up after an inquest on Mrs. Phoebe White, Markfield, who died in the Infirmary on August 7, following an operation. A verdict of death by misadventure was



CHEMISTS' GIFT TO TECHNICAL COLLEGE: At the chairman's social evening of the Reading and District Branch of the Pharmaceutical Society on October 5, the sessional chairman (Councillor G. G. Hammond, B.Sc., M.P.S., F.R.I.C.) presented an oak lectern, gavel and chair to Mr. F. H. Lewis (chairman of governors, Reading Technical College). The gift is for use in the governor's room of the new Technical College which is being opened by H.M. the Queen Mother on October 26. Mr. Williams (branch secretary), who is also in the photograph, was M.C. for the evening. Councillor Hammond and Mr. Williams are representing the Society at the opening ceremony of the Technical College.

then returned. The subcommittee, at which Mr. E. J. Fitchett (chief pharmacist at the Infirmary) was in attendance, sat for an hour and a half. After inquiring into the regulations relating to the issue of drugs and medicines, and considering a report by Mr. Fitchett, it decided that the rules he had laid down for the issue of drugs were adequate, and, "if meticulously carried out "ruled out the possibility of mistakes.

One rule required that the pink slip which accompanied the medicine from the dispensary to the ward should be signed or initialled by a pharmacist. The subcommittee agreed to the introduction of a new rule that ward and departmental sisters should refuse to accept issues from the dispensary unless the pink delivery slips were signed or initialled by a pharmacist.

Chemical Industry

MAN-POWER DOUBLED SINCE 1939

TAKING the figure of 100 as the employment for any industry in 1939, chemical and allied industries employment has now increased to 199 compared with 163 for electrical engineering. Those figures were quoted by Dr. A. King, C.B.E., at the national conference of the Purchasing Officers' Association recently. He also compared the money spent on research in the United States with that spent in Great Britain. American industry was spending an amount varying from onethird cent for each dollar of sales in one large corporation to 4.7 per cent. of its sales in a second corporation, where seventy-eight new products had been introduced in a single year. In Great Britain there was a similar tendency. An optimum of 3 per cent, on turnover was being used for research in the chemical industry.

The opening address at the Conference was given by Mr. F. J. White (president of the Association), who said that according to the economic survey committee of the Association, members were holding stocks from three to nine months. Reasons for those comparatively high figures were (1) current marginal shortage of some materials, (2) unreliability of deliveries, (3) uncertain service from the railways. A sample survey showed that approximately 53 per cent. of the original promises given by suppliers were not kept and 39 per cent. of revised promises also failed.

Drug Industry

ASSOCIATION'S AUTUMN CONFERENCE

THE autumn conference of the Association of British Pharmaceutical Industry met at Buxton, October 6 and 7, with a record attendance of 200 members and ladies. The half-yearly meeting on October 6 discussed the recently published Ministry of Health report for 1954; tablet standardisation and the use of colour in tablets; discounts on medical specialities supplied by manufacturers and wholesalers to N.H.S. dispensing doctors; and plans for further displays of the Association's exhibition of modern pharmaceutical products. Overseas guests at the social functions were Dr. Bengt Ehrenberg

and Mrs. Ehrenberg and Mr. G. A. Rising, representing the Swedish association of the pharmaceutical industry. At the conference dinner on October 6, the toast of "Our Guests" was proposed by THE PRESIDENT of the A.B.P.I. (Mr. C. M. Hill, The British Drug Houses, Ltd.) and Dr. Ehrenberg responded. Mr. Rising made a presentation of Swedish glass to the Association as a memento. Other social events of the conference were a ladies' excursion to Chatsworth House on October 6 and golf competitions (see p. 427), followed by dinner and dancing, on October 7.

Scientific Instruments

CENSUS OF PRODUCTION PUBLISHED

A REPORT on the 1951 census of production of scientific, surgical and photographic instruments has been published. It shows that the net output of the 737 larger establishments amounted to £45,713,000, against £42,296,000 in the previous year, when there were 747 larger establishments. The total estimated average employment in all firms was \$1,386 (excluding any small firms in Northern Ireland). Total sales of dental, medical, surgical, veterinary and dissecting instruments, appliances, and equipment in the United Kingdom amounted to £10,279,000. Total exports of medical, dental, etc., instruments rose to 892 thousand dozen, compared with 776 thousand dozen in 1948. Of those figures 601 thousand dozen were medical and surgical instruments (556 thousand dozen in 1948).

Dressings Factory Visited ENFIELD CHEMISTS AT BARNET

MEMBERS of the Enfield Branch of the Pharmaceutical Society who visited the factory of S. Maw, Son & Sons, Ltd., Barnet, Herts, recently, were first shown an aerial photograph illustrating the general layout of the buildings.



TWO HALF-CENTURIES: At a luncheon on September 30, the directors of Johnsons of Hendou, Ltd., presented Messrs, H. W. Defrates and H. C. Gray with a gold watch and a cheque each to celebrate their completion of over fifty years' service with the company, About twenty-five members of the staff, all with more than twenty-five years' service to their credit, were also present. Mr. Defrates has acted in many capacities in the company; for the past twenty-five years he has represented it in the London area. Mr. Gray deals with problems connected with shipping chemicals,

The party was then conducted over the various departments. Of interest in the surgical dressings section machines, recently installed and the most up-to-date in the industry, used in the processing of cotton from the raw state to its final British Pharmaceutical Codex standard. Other processes seen were the manufacture of sanitary towels, maternity pads and lint. In the pharmaceutical department the automatic packing of liquids, ointments and powders was inspected; and the printing of chemists' "own name" labels. In a separate building the processing of compressed and coated tablets was explained. A special system which facilitates the assembly of customers' orders and at the same time assists in the maintaining of a precise stock control was demonstrated in the large warchouse where merchandise under 3,500 different headings is stored in avenues each 150 yards long.

PHOTOGRAPHIC DEALERS AT DINNER

All previous attendance figures beaten

PHOTOGRAPHY'S "many facets" were represented among the record number of 725 diners at the annual dinner of the Photographic Dealers' Association held in London on October 11. So said the president, Mr. Allen Aldington, M.P.S., A.R.P.S., in proposing the toast "Photography and Our Guests." The year had seen some progress in the promotion of photography as an instructive, informative and intelligent use of leisure time. The weather had been good, supplies adequate, and an increasing part had been played by television, especially in the series of talks by Baron, who was their principal guest of the evening. Association's winter flash campaign this year directed to the general public-had got off to a tremendous start at Manchester and Sheffield. Baron, who responded, told how he came to take up photography as a vocation, and spoke also of his broadcasts. They had been addressed to the man in the street, he said, and especially to those without the means to buy expensive apparatus. In his next series he would

stress "When in doubt, ask your dealer," and he asked members of the Association to see that their assistants were trained to teach customers the rudiments of handling a camera. He also thought that more attention should be paid in Britain to the standard of developing and printing work.

The members' exhibition challenge cup was presented to the winner, Mr. B. F. Sparks, Reading, by Mrs. Aldington, who said the award had been won this year by a "Class B" entrant—one who had never previously won a photographic award of any sort.

Among the guests of the Association

Among the guests of the Association were the president of the Pharmaceutical Society of Great Britain (Mr. H. Steinman) and Mrs. Steinman; the chairman of the National Pharmaceutical Union (Mr. W. Talvan Rees) and Mrs. Rees; the chairman of the British Photographic Manufacturers' Association (Mr. E. S. Houghton); the president and secretary of the Wholesale Photo Finishers' Association; and the chairman and secretary of the Institute of British Photographers.

NEWS IN BRIEF

THIEVES stole a number of electric razors from Boots, Ltd., 636 Alexandra Parade, Dennistoun, Glasgow, during the night of October 6.

BEST student-member of Hull Branch of the Pharmaceutical Society is Mr. B. Beasty, it was announced at the president's reception recently (see C. & D., October 8, p. 400).

THE Minister of Agriculture, Fisheries and Food has appointed Mr. M. D. M. Franklin a joint secretary of the Food Standards committee to succeed Mr. F. W. Sidwell.

PROFESSOR J. M. Webster (Home Office pathologist and director of the West Midlands forensic science laboratory, Birmingham) is retiring on October 15 for health reasons.

An increase of £477,733 in the costs of drugs and dressings is reported in the summarised annual accounts for 1954-55 of the Scottish South-eastern Regional Hospital Board issued on October 3.

An editorial in the Medical Press of October 5 urges the Government to take "another look" at the whole financial basis of the Health Service—hospital charges, for instance—"or rather their absence."

OF the 164 proprietary medicines set against named "official equivalents" in the doctors' list of costs issued by the Ministry of Health (see C. & D., October 1, p. 369), ninety-two are more expensive than their equivalents; sixtyfour are cheaper and eight are the same, and not as previously stated.

In a letter to the editor of the Sheffield Star on September 27 a complaint is made about the inadequate shopping facilities, including the lack of a chemist's shop, on the Hackenthorpe estate.

A £90,000 extension to King's College Hospital Medical School, London, S.E., has been approved; and a gift of £400,000 has been made towards the rebuilding of the Middlesex Hospital Medical School, London, W.1.

Mr. Stephen Cheveley has been appointed chairman of the governing body of the Foot-and-Mouth Disease Research Institute at Pirbright, Surrey, in succession to Professor Wilson Smith who is retiring.

THE annual conference of the Society of Registered Male Nurses agreed at Edinburgh on September 24 to negotiate with the Whitley Council "to exempt all nursing staff from the shilling fee for prescriptions dispensed within the hospital."

SPORT

Golf.—ASSOCIATION OF BRITISH PHARMACEUTICAL INDUSTRY, competitions at Buxton, October 7. Bowman cup (replica presented by the council of the Association), D. J. Hayman (The Distillers Co. (Biochemicals), Ltd.); Morson trophy (replica presented by Mr. L. J. Morson), C. P. Hewing (Stafford Allen & Sons, Ltd.); Victorian trophy (replica presented by Mr. C. M. Hill (president of the Association)), N. M. Holmes (Richard Daniel & Son, Ltd.), LADIES' COMPETITIONS: Ransom trophy (presented by William Ransom & Son, Ltd., with a salver presented by Sangers, Ltd.), Mrs. R. L. Taylor; Abbott prize (presented by Abbott Laboratories, Ltd.), Mrs. L. D. Smith.

TOPICAL REFLECTIONS

By Xrayser

Vocation and Dignity

I am in complete agreement with Mr. J. Farrer Barnes in the matter of what he calls the worthiness of pharmacy as a service vocation and the dignity of the pharmacist (p. 400). Mr. Barnes, addressing the opening meeting of the Liverpool Chemists' Association and Branch, referred to the display of a variety of articles which bore no relationship to pharmacy. The tendency today is for businesses of various kinds to trespass on the legitimate field of others, and it is difficult to assign any one reason for The departmental stores, to which no this regrettable development. branch of business is sacred, have had an influence on the trend, with the result that smaller shops, with no pretensions to departmentalism, feel forced to follow suit. A further aggravation has been caused by the desire on the part of manufacturers to have the maximum possible number of points of distribution for their goods, regardless of the interest or goodwill of those who originally sold them. The result is that the grocer trespasses on the preserves of the chemist, the chemist on the jeweller and watchmaker, the hairdresser on the tobacconist, and so on, until the line of demarcation is not easy to define. Pharmacists would do well to think over the remarks of Mr. Barnes when offered fresh fields to conquer, and in so doing ask themselves if the product offered is worthy of professional backing and professional dignity. The appearance of a pharmacy, both inside and out, can still be distinctive and distinguished, and every effort should be made to make that distinctiveness as pronounced as possible.

The Drug Bill

Lest it should be thought that the drug bill is becoming something of an obsession with me—a kind of King Charles's Head—I would plead in extenuation that hardly a week passes without some pronouncement on the subject from some quarter. The "thorny problem" was again in evidence at the annual conference of the Scottish Association of Executive Councils (p. 408) when the president (Dr. J. O. McDonagh) made suggestions to try to find a way of coping with the situation. In your editorial comment, you rightly point out the dangers inherent in merely cutting the cost, which could be done at the expense of progress. The frequent reductions in cost of some of the antibiotics is evidence of your contention that widespread use and increasing production are prime factors in reducing costs. The speaker showed his awareness of these factors by his reference to insulin and penicillin. Yet it was satisfactory to hear that Dr. McDonagh was appreciative of the problems of broken bulk and dead stock in the chemists' shops, due to medical flirtations with new and passing fancies.

Traffic Congestion

In one of his many essays, E. V. Lucas described a friend who was an avid reader, and who had the charming habit of carrying a heavy handbag, filled with books, to read on his daily journey in London. Lucas explained that this was no satire on the railway system, but pure zeal. In London's congested conditions above ground the literary gentleman, had he lived today, would have had ample opportunity for selfindulgence. The intimation of new, though experimental, restrictions on the loading and unloading of vehicles at different points in the city (p. 398) is designed to assist in the through movement of traffic, though such restrictions are bound to cause inconvenience to business premises situated in the affected areas. The time may not be far distant, in this mechanised age, when we shall see a reversion to a more primitive form of delivery. Any day now, between Duncannon Street and Agar Street, we may have our eyes gladdened by the spectacle of one of the Higher Executives of the Transport Commission, complete with topee and binoculars, leading a file of native bearers along the foot-track on the Strand, intent on delivering the goods to time.

IRISH NEWS

Irish Society's Appeal

HEARING BY SUPREME COURT SOON

AMONG the appeals listed for hearing by the Supreme Court in Dublin during the Michaelmas term just opened is that of the Pharmaceutical Society of Ireland and its president (Mr. Michael Costello) (see C. & D., May 28, p. 579). The appeal is from the judgment of the High Court which discharged a conditional Order obtained by the Society, and Mr. Costello, to prohibit the Fair Trade Commission from inquiring into any matter relating to the compounding and dispensing of medical prescriptions on the ground that such activities were of a professional nature, and did not come within the scope of the Commission.

Ulster Chemists

MONTHLY MEETING OF EXECUTIVE

THE monthly meeting of the executive committee of the Ulster Chemists' Association was held in Belfast on October 4, Mr. W. H. Boyd (president) in the chair. Before commencing the business of the meeting, on the motion of THE PRESIDENT, a vote of sympathy was passed to the widow of the late Mr. W. G. McCreight and to the family of the late Mr. J. S. Balmer. A draft agenda, annual report and balance sheet were approved for printing and it was agreed that the annual meeting of the Association should be held in the rooms of the Pharmaceutical Society of Northern Ireland on Wednesday afternoon, November 23. It was decided to revert to the Wednesday afternoon meeting, because the evening meeting fixed in 1954 to accommodate provincial members was not well attended. The Secretary reported that the eight retiring members of committee had offered themselves for re-election. They were Miss C. Abernethy, Messrs, J. C. Acheson, H. S. Anderson, W. H. Boyd, J. Caldwell, W. S. Hall, M. C. Mooney, and C. A. Quinn, One new nomination had been received, that of Mr. Louis McCullagh, Fruithill Pharmacy, Andersonstown, Belfast. There would, therefore, be a contest, and voting papers would be sent out to members at the end of October. Various price changes were approved, and

among items discussed were shop hours, rota, and new openings. The following was elected to membership: Mr. P. O'Doherty, M.P.S.N.I., Eglinton, co. Derry. A number of employees, whose applications had been approved by the Associates' Committee, at a previous meeting, were elected to associateship.

Also present were elected to associateship.

Also present were:—Miss C. B. Abernethy,
Miss C. E. Culbert, Messrs, J. C. Acheson, H. S.
Anderson, J. A. Brown, J. Caldwell, H. G.
Campbell, H. W. Gamble, T. A. Gibson, R.
Gibson, C. L. Gordon-Rattie, W. J. Moffett,
R. A. McEwen, W. R. McNabb, J. Paul, C. A.
Quinn, W. J. Rankin (treasurer), and A. Templeton. Apologies for absence were received from
Messrs, W. S. Hall, W. L. McDonnell, and
J. McGregor.

Irish Golfers' Dinner

LAST OUTING OF THE SEASON

AMONG those present at the annual dinner of the Irish Chemists' Golfing Society held at Hermitage golf club, co. Dublin, on October 28, were Messrs. Ernest Allen (captain, Ulster Chemists' Golfing Association), R. J. Jeffers (immediate past-captain), M. Costello and P. F. McGrath (president and vice-president, respectively, of the Pharmaceutical Society of Ireland), Denis J. Murphy (president, Irish Drug Association), B. R. Smith (secretary), Alderman L. Cashman, the Reverend J. Cosgrove (captain, Hermitage golf club), Messrs. J. Fosh (Goya, Ltd., London), Michael Baynes and James Baynes (M. J. Baynes & Co.). Mr. PETER FULLAM (captain), who presided, expressed his great pleasure at seeing such a fine attendance for the last outing of the season. Mr. Eric Massey proposed the toast of "Our Guests" and MR. ALLEN replying, said that he hoped that the friendly relations which existed between the Chemists' Golfing Society and the Ulster Association would long continue. Mr. McGrath said that the president of the Pharmaceutical Society of Ireland was to be congratulated on bringing back the Edmund White cup to Ireland a second time. That was no mean achievement. Mr. Costello had not only won the cup but had the best gross of that day. Also, the Irish open golf championship had been won by Captain Fitzgibbon. Referring to the British Pharmaceutical Conference being held in Dublin in 1956, Mr. McGrath (chairman of the

Irish Conference Committee) said that they wished to get the help and cooperation of everybody in pharmacy, and particularly of the Golfing Society to make that Conference an outstanding success.

During the afternoon competitions were held for the prizes presented by Baynes & Co., and Goya, Ltd. Results: Eighteen holes strokes, 1, J. T. Foley (14), 70; 2, J. P. Holland (15), 72. Best first nine, E. McManus (13), 33½; Best second nine, W. R. Such (22), 36. Eighteen holes bogey, 1, J. Mason (10), all square; 2, M. Nicell (23), 1 down. Secret score prize, K. Deavy.

Ulster Associates

MONTHLY MEETING OF COMMITTEE

AT the October meeting of the Associates' Committee, Associates' Section, Ulster Chemists' Association, Mr. G. E. McIlhagger in the chair, the agenda for the annual meeting to be held on November 10 was approved. THE TREASURER (Mr. T. Hunter) reported on the finances of the Section for the year just ended, and stated that he was preparing the books for auditing, Mr. E. Baird (student representative) advised the Committee that the pharmacy tie and scarf, sponsored by the Society of Pharmaceutical Students, should be available early in December. The secretary read a report of a recent social subcommittee meeting.

SCOTTISH NEWS

Student Prize-winners

GLASGOW PRESENTATIONS

THE following prizes were presented by Mr. H. Steinman (president of the Pharmaceutical Society) to pharmacy students of the Royal Technical College, Glasgow, at the inaugural meeting of the 1955–56 session of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society on October 10:—

Malcolm Kerr (Botany) Bursary, Miss Elsie E. M. Kinnear; Kinninmont Testimonial Prize, Mr. W. G. McLellan; James Taylor Prizes, Degree I, Miss Margaret M. Richardson; Degree III, Miss Patricia D. Barron; Ph.C. I, Mr. John Caldwell; Evans Pharmaceutical Prize, Miss Isobel M. Beswick; Boots Dispensing Prizes, Degree III, Miss Isobel M. Beswick; Ph.C. I, Mr. John Caldwell; Branch Medal, Mr. Ronald T. Coutts.



IRISH CHEMIST GOLFERS AT DINNER: Left: top table guests: Messrs. Ernest Allen, M.P.S.N.I. (captain, Ulster Chemists' Golfing Association) and Peter Fullam (captain, Irish Chemists' Golfing Society), Rev. J. Cosgrove (captain of Hermitage Club) and Mr. Michael Baynes, Stanlers ing: Messrs. James Baynes, J. T. Foley, John Holland, Kevin Banks, J. Fosh, Con Collis and R. J. Jeffers (immediate past-captain, U.C.G.A.).

Right: Mr. Michael Baynes (M. Baynes & Co.) presents the first prize to the winner, Mr. John T. Foley, M.P.S.I., Clontarf, On Mr. Baynes' right is Mr. John P. Holland (P. C. Cahill & Co.) who was the runner-up and second prize-winner. Also in the picture are Messrs, Jas, Baynes, M. Costello (president, Pharmaceutical Society of Ireland), J. Fosh



(Goya, Ltd.), P. F. McGrath (vice-president of the Society) and Phil McAuliffe.

NURSING EXHIBITION

Pharmaceutical products shown

AT the London Nursing Exhibition held in London, October 10-14, more than forty pharmaceutical manufacturing companies displayed their products. Among the pharmaceutical exhibits, A. & B. Lactobacillus Preparation, a new product shown by APLIN & BARRETT, LTD., Yeovil, Somerset, is a highly nutritive milk protein preparation containing active cul-tures of the intestinal lactobacilli which have been rendered resistant to antibiotics, etc. The product has been specifically developed to combat the side-effects of the broad-spectrum antibiotics, and is at present on clinical trial only in hospitals. It is in powder form and is administered in warm milk in a dosage of about 6 gm. four times daily. The one-minute film on Benger's food, which is appearing on I.T.V. throughout the winter, was being shown on the stand of BENGER'S, LTD., snown on the stand of BENGER'S, LTD., Holmes Chapel, Ches. A new use for Oblivon, in bronchial asthma, was featured by BRITISH SCHERING, LTD., London, W.8. Two new baby foods, Baby Rice and Robsweet, a pudding made from bananas and cereal in a concentrated rounder form were about the standard form. concentrated powder form, were shown by KEEN, ROBINSON & CO., LTD., Norwich. MACLEAN'S, LTD., Brentford, Middlesex, showed Fynnon Balm, a new rheumatic ointment, the company's peroxide tooth-paste now made to a new "extra-whitening" formula, and Eno's Fruit Salt now packed in a new wide-mouthed jar with no outer sleeve. Micol cetrimide cream, a nonirritant antiseptic cream, was shown by MILTON INDUSTRIAL CHEMICALS (LON-DON), LTD., who state that they are specialising in the supply of quaternary ammonium compounds to hospitals, industry, etc. PAINES & BYRNE, LTD., Greenford, Middlesex, were exhibiting their Ce-Cobalin vitamin tonic syrup recently generally released for the first time in unlimited supply: the company were also featuring a new use for Disipidin insufflations, the treatment of enuresis. A restyled dispenser for the company's barrier creams, suitable for factory or workshop, was shown by ROZALEX, LTD., Manchester; the cream is ejected by one-hand operation, and the dispenser is chromium-plated inside and out. Industrial Tubegauz, a new, unbleached heavy quality Tubegauz, especially designed for industrial use, being water-repellent and stronger than the standard Tubegauz, was being shown by the Scholl Manufacturing Co., Ltd., London, E.C.1; the company also showed their Poro-plast type porous adhesive plaster, with non-rub-berised adhesive spread to minimise irritation to the skin, and now available in a range of usual adhesive plaster sizes, ½ in., 1 in., 2 in., etc. Thermona, an analgesic cream incorporating Dilatal vaso-dilator, for the relief rheumatic conditions and unbroken chilblains, was shown by SMITH & NEPHEW, LTD., Welwyn Garden City, who also showed Lillets sanitary tampons in a new, improved form. new pack of twenty Gelusil tablets was shown by WILLIAM R. WARNER & Co., LTD., London, W.4. Also exhibiting were: CIBA LABORATORIES, LTD., Horsham; CLINICAL PRODUCTS, LTD., Richmond; CONTINENTAL LABORATORIES, LTD., London, W.C.1; COW & GATE, LTD., Guildford; THE CROOKES LABORATORIES, LTD., London, N.W.10; GENATOSAN, LTD., Loughborough; ENERGEN FOODS CO., LTD., LONDON, N.W.10; INTERNATIONAL CHEMICAL CO.,

LTD., London, W.C.1; JEYES LABORATORIES, LTD., Chigwell, ESSEX; MENLEY & JAMES, LTD., London, S.E.5; PHARMAX, LTD., Bexleyheath; RECKITT & COLMAN, LTD., Hull; W. J. RENDELL, LTD., Hitchin, Herts; RIDDELL PRODUCTS, LTD., London, E.2; TAMPAX, LTD., Greenford, Middlesex; A. WANDER, LTD., London, W.1; WRIGHT, LAYMAN & UMNEY, LTD., London, S.E.1; JOHN WYETH & BRO., LTD., London, N.W.1.

EXAMINATION RESULTS

English and Scottish Intermediate passes

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical Society in ENGLAND AND WALES in September:—

AUERBACH, N., Manchester; BAKER, B. J., Plymouth; BROWN, P. G. Birkenhead; BUTTERWORTH, A. J., Denton; COOPER, R. G., Manchester; COOPER, Sheila, Leicester; DONLAN, B. H., Warrington; GARDNER, A. W., Burton-on-Trent; GENTRY, Patricia A., Ewell; GRAY, J. B., Boscombe; HIBBARD, D. M., Sheffield; HOLT, Patricia M., Burnley; KITCH, Marilyn E., Hertford; KROL, Irena M., Clapham; LEWIS, P. G., Bridgend; LIU, Laura C. L., Plymouth; LOWTHER, J. R., Scotforth; LUTCHMUNSING, K. P., Bedford Park; MELLING, G. C., Horwich; MIELNIK, Olga, Leicester; MITCHELL, G. B., Hailsham; MITCHELL, Marjorie G., Retford; MOSS, Joan M., Newton Abbot; OWEN, Ceris, Bangor; PERRY, C. E., Burton-on-Trent; RUSSOFF, H. S., Salford; SAWICKA, Boguslawa J., Melton Mowbray; SMITH, G. D., Bognor Regis; STEVENS, M. E., Leeds; TAYLOR, K., Prestoury; WAITS, Janet M., Didcot; WEBB, D., Grimsby;

Wells, Jean M., Llandudno; Wind, C. C., Chadwell Heath.

The following candidates satisfied the examiners in the Intermediate examination in SCOTLAND in September:—

ALEXANDER, Mary C., Glasgow; BUCHAN, J. M., St. Combs, Fraserburgh; BUCHANAN, J. W., Dunfermline; CLARK, Catherine E., Longhorsley; CLONEY, Lynda M., Newcastle-on-Tyne; Coster, Sally J. F., Airdrie; Cowie, Marie G., Fraserburgh; COYLE, D. N., Lowton; CRAIG, R. C. A., Edinburgh; CRUMBLEHULME, W., Bolton; Dodd, Carol, Ulverston; Duthie, G. F., Fraserburgh; Gillespie, Robina C., Greenock; Gordon, Margaret A., Skene; GRAHAM, Doreen M., Aberdeen; HILL, Margaret M. N., Glasgow; JACK, Sheena L., Rosewell; Labinjoh, A. A., Edinburgh; Lawson, Eileen, Kingswells; Liversedge, Audrey E., Dewsbury; McClaren, R., Edinburgh; McConnell, W. S., Hurlford; Mair, A. MacD., Dumbarton; Monachan, I. McG., Glasgow; Morrison, Joan I. R., Edinburgh; Munro, D. H., Glasgow; Nixon, Pearl E., West Hartlepool; Reeve, Patricia M., Leeds; Sevenoaks, C., North Shields; STIRLING, A. C., Kirkintilloch; THOMAS, W., Birkenhead; WHITE, J., Dunbar.

STATUTORY COMMITTEE

Two inquiries; both adjourned

THE Statutory Committee of the Pharmaceutical Society, at a meeting held in London on October 5, considered the case of a pharmacist against whom it was stated that on two occasions while acting as the pharmacist in charge of a pharmacy, he was under the influence of drink or drugs to such an extent as to be unfit to be in charge of a pharmacy. The pharmacist was present, and was not represented by counsel. He did not dispute the charges, except for some details, but he produced evidence to show that he had undergone hospital treatment for his addiction to alcohol, and said that he felt "well on the way" to being cured. He produced letters from an employer, from another pharmacist, and from his father, to substantiate his statements.

Evidence was then given to show that the pharmacist had appeared before the Committee six months previously, on April 6, on charges of having been, while acting as pharmacist in charge of a pharmacy, under the influence of drink and drugs to such an extent as to be unfit to be in charge, and of having been convicted of offences under the Dangerous Drugs Act, 1951 (see C. & D., April 16,

p. 414). THE CHAIRMAN of the Committee (Sir David Scott Cairns, Q.C.), announcing the Committee's decision, said that the Committee was satisfied that the conduct with which the pharmacist was charged was proved, and was such as to render him unfit to remain on the Register. They had been strongly disposed to remove his name, but would not do so for the time being, subject to an undertaking by the pharmacist that during the next twelve months he would not accept any post as a pharmacist where he was not under the supervision of another qualified pharmacist, and that he would continue to have medical treatment and submit monthly written re-ports to the Committee from his medical adviser. The inquiry was adjourned for twelve months.

The Committee then considered the case of a pharmacist against whom it was stated that he had been convicted of an offence under the Larceny Act, 1916. Mr. A. C. CASTLE said that certain information had come to light which was not available at the time when the pharmacist was prosecuted. He suggested that his duty was to ask for an adjournment. The case was ad-

journed.

PATENT OFFICE EXHIBITION

Marking centenary of library

AN exhibition showing the development of the industrial arts during the past 100 years is being held to mark the centenary of the Patent Office library in London. The library was founded in 1855 by Bennet Woodcroft, F.R.S., then clerk to the Commissioners of Patents. One section of the exhibition is devoted to the founder of the library, and one exhibit is a record of the numbers of readers. Within nine months of its opening 2,500 readers had made use of the library-today an average of 1,600 readers each week sign in. The exhibition is divided into decades and among the earliest patents featured are a considerable number for photographic purposes including patent 9193, "Specification for Daguer-rotypes" by Antoine Jean Francois Claudet, and patent 8842, described as "photographic pictures" granted to William Henry Fox Talbot, both dated

The revolutionary new method of manufacturing "carbonate of soda" patented by Ernest Solvay (No. 3131) in 1863 is described. Most of the exhibits are photostat copies of the patents. Walter Weldon's patent No. 1948 for the manufacture of chlorine granted in 1866 is there, and also the patent of William Henry Perkin — whose discovery of alizarin was the beginning of the vast dyestuffs industry. Perkin's patent is described as: "Producing a new colouring matter for dyeing with a lilac or purple colour stuffs of silk, cotton, wool, or other materials."

The section on patents of the 1850's includes Portland cement, Bessemer process, asbestos paper, brewing beer, and artificial silk manufacture. The historic publication "Chemical Handicraft—A classified

and descriptive catalogue of chemical apparatus for every process of chemical research," published by John Joseph Griffin in 1877 is another interesting exhibit. It was the precursor of the catalogues issued today by Griffin & Tatlock, Ltd. The Castner process for the manufacture of sodium hydroxide hides its virtues under the title of patent No. 16,046, A.D. 1892: "An improved process of an apparatus for the electrolytic decomposition of alkaline salts." In the same year patent number 8700 was registered by three men—Charles Frederick Cross, Edward John Bevan, and Clayton Beadle. It is described as: "Improvements in dissolving cellulose and allied compounds"—later it became the viscose process. A model is shown of

Lumière's cinématographe (Lumière camera and projector 1895), and many magazines, and trade newspapers are exhibited-among them a copy of the British Plastics and Moulded Products Trader of 1929 in which there appears an article with coloured illustrations describing cellulose acetate plastics. Along the same lines is patent No. 1921—Bakelite—registered in 1908, by Leo Hendrik Baekelands, and described as: "Insoluble Condensation products of Phenols and Formaldehyde." The exhibition meticulously records the progress of science allied to industry. The 1930's saw the registration of polythene, ion exchange, The 1930's saw the polaroid, foaming detergent, and plant hormones. Then the 1940's brought with them the advances, and isolation or discovery of DDT (1941), Terylene (1941), Aureomycin (1949), Chloromycetin, hormone weed killer, and, of course, penicillin.

ADVANCES IN TREATMENT

A survey from the medical aspect

THE October issue of the *Practitioner* is a special number on advances in treatment in 1955. An editorial introduction suggests that, without any dramatic advances in the field of therapy during 1955, progress has been maintained, and notes a growing realisation of the necessity for discrimination in the use of the antibiotics and of cortisone and corticotrophin. The first article deals with "Advances in Medicine." In it Dr. R. E. Tunbridge (professor of medicine at Leeds University) selects possible mass immunisation against anterior poliomyelitis as the most striking advance of the year. He refers to the "disastrous and disappointing" field trial with the Salk vaccine and suggests that the work of Sabin and his group, who have succeeded in prepar-

ing from all three types of virus an avirulent variant which yet retains the property of stimulating antibody formation, opens up new possibilities in immunisation against the disease. Poliomyelitis is also discussed by Dr. Wilfrid Gaisford (professor of child health and paediatrics, Manchester University) in a review of paediatrics.

A Step Forward

He describes, too, the introduction of Imferan as a real step forward in the treatment of nutritional anaemia. Vitamin K as a haemolytic agent in the newborn is one that, he writes, should be used with care, especially in premature newborn. An adequate dose of of the vitamin to prevent haemorrhagic disease of the newborn is 1 mgm. Dr. Brian Russell (physician in charge of the skin department, the London Hospital), who writes on the treatment of skin diseases, warns that antihistamines as topical remedies are best avoided: eczematous dermatitis following their use is not unusual in Britain, but fortunately their topical use has been less popular in this country than on the Continent. Other articles deal with advances in treatment of respiratory disorders, tuberculosis, renal disease, gastroenterology, acute infectious diseases, eetc. After reviewing the uses of antibiotics and discussing the treatment of rheumatic disorders, Professor Tunbridge states that he has found Megamide (\(\beta\beta\) methyl ethyl glutarimide) most efficacious in the treatment of severe cases of barbituric poisoning, but notes dangers in its use

The same drug is referred to by Dr. F. S. Fiddes (senior lecturer in forensic medicine, Edinburgh University) in an article on "Advances in Toxicology." Professor A. S. Duncan (professor of obstetrics and gynæcology, Welsh National School of Medicine), who contributes an article on "Advances in Obstetrics and Gynæcology," cites as an important advance the development of techniques for chemical assay of oestrogens and of pregnanediol.

CHEMICAL RESEARCH PROGRAMME

(Concluded from The Chemist and Druggist, October 8, p. 408).

An adaptation of the French method of separation of the rare earth metals by complexing elutions from ion-exchange resins was being studied by the inorganic group. Separation by that method of the rare earths, is in decreasing order of atomic weight, the heaviest elements being separated first. The rare-earth elements occur naturally in combination with substances such as thorium in radioactive ores. At the request of the Pure Metals Committee, workers at the Chemical Research Laboratory are attempting to isolate them in larger quantities than previously and to study their properties. The ores include such substances as xenotime, gadolinite, yttrostungstite, formanite, fluoerite, etc.

Also under study in the high polymers group are the bibliography and applications of ion-exchange membranes. A demonstration was in progress of the electrical desalting of brackish water, using an ion-exchange membrane. The solution is passed through the membrane by an electric current, the process being a continuous, purely electrical one needing no ionisation columns, regeneration, etc. An

other item of interest in that field was a selection of papers impregnated with different types of ion-exchange resin. Strips of the paper may be used in small pilot-plant to enable selection of an appropriate resin for a particular process to be made before the setting up of full-scale apparatus.

The discovery in the cells of sulphate-reducing bacteria, of a new and unusual cytochrome, c3, led to the investigation by the microbiology group, of the properties of that substance, which are similar in many ways to the cyotochrome c of muscle. A demonstration was in progress of the separation and purification of cytochrome c3 and its examination by visual and spectrophotometric observation.

A new ion-exchange process for the recovery of gold from cyanide solutions, using a weakly basic ion-exchange resin, was demonstrated in the radiochemical building. The new process gives gold at least 95 per cent. pure using only one adsorption and elution stage instead of the several required by the ion-exchange process previously used.

DEVELOPMENTS IN THE UNITED STATES

THE first instantaneous skin-thermometer capable of measuring minute changes of temperature in the human body, has been developed by the Vibro-Ceramics Corporation, Metuchen, New Jersey. The instrument is the result of a suggestion by Dr. Max Greenberg (director of medical research for Vibro-Ceramics) and was developed under the supervision of Mr. Frank Bennett (vice-president of the Thermistor Corporation of America, an affiliated company). The thermometer comprises three basic components: (1) A temperature-sensitive piezoelectric ceramic element



Skin thermometer

(Thermistor) mounted in a probe; (2) an electrical bridge network which powers and operates the necessary circuit; and (3) a precision electric meter calibrated in terms of temperature. Dr. Greenberg points out that capillary temperature, which can be accurately measured by the new instrument, is extremely important in revealing much information about the entire circulatory system, especially arteriosclerosis and obstructive vascular changes. Out of the present device, he anticipates the development of a clinical thermometer that could be adapted for oral and rectal use.

Continuous Infra-red Analysis

The new \$50,000,000 petrochemical plant at Fortier, Louisiana, of the American Cyanamid Co., is using Tri-Non continuous infra-red analysis to control the purity and output of its process stream. The vice-president of the Perkin-Elmer Corporation, which manufactures the instruments, has said that although the analyses are now being used as indicators, the day is not far distant when the information from the analysers will be relayed to computers which, in turn, will calculate and forward instructions to the valves and operating controls which govern the process. Acrylonitrile, principal product of the Fortier plant, is made by react-ing hydrogen cyanide with acetylene. The acetylene unit was developed by Badische Anilin & Soda-Fabrik, A.G., in Germany. In the process, natural gas and oxygen are reacted in burners of unique design. Principal reaction products are carbon dioxide, carbon monoxide, hydrogen, and acetylene. Oxygen for the process is supplied from an air separation plant which also produces nitrogen. Part of that nitrogen, plus hydrogen from the acetylene unit are reacted to make ammonia as a by-

product. The unique acetylene process is a highly critical one, demanding precise operating conditions for maximum yield, and to ward off danger of explosion. For those reasons, the plant designers decided that conventional controls of pressure, flow-rate and temperature were inadequate. Several Tri-non analysers have been installed at Fortier. One pair is mounted near each of the two groups of four burners. One analyser in each pair determines methane concentration and the other, acetylene. An automatic sampling system successively admits a small portion of gas from each of the burners into the analysers and the results are recorded on a chart for each analyser in a control room two floors below. Sample cycling time is eight minutes, for four burners. At the next step, the acetylene absorber, another analyser samples the off-gas which goes to the ammonia plant. There, acetylene concentration must be less than 0.3 per cent. Two other analysers monitor efficiency of carbon dioxide removal in the purifi-cation tower. One determines carbon dioxide concentration half-way up the tower and the other measures carbon dioxide in the acetylene product, where it is held to less than a few tenths of 1 per cent. Additional analysers are installed in the ammonia unit where one of their most important tasks is to check the concentration of oxygencontaining compounds in the feed streams to the ammonia reactor. Such compounds would quickly poison the catalyst. Another analyser checks the efficiency of carbon dioxide removal in the caustic soda scrubbers, holding the level to five parts per million while another analyser measures traces of carbon monoxide at the outlet of the caustic scrubbers. Plant operating officials say that the analysers not only respond faster, but require less attention than other analytical methods.

Ultrasonic Break-up of Urinary Stones

An ultrasound technique in which high frequency waves are used to break up urinary stones has been developed by Dr. Harold Lamport (research associate in physiology at the Yale School of Medicine, New Haven, Connecticut) and Dr. Herbert F. Newman (attending surgeon at Gouverneur Hospital, New York City). The technique has proved successful on cadavers but has not yet been tested in human beings. In the new ultrasonic method a cystoscope and tube are introduced through the urethra into the bladder. At the end of the tube is a slightly smaller drill-tip. Metal ribbon-wires transmit the ultrasound from the generator outside to the drill-tip within the body. The tube, after entering the bladder, is pushed through the urinary canal towards the kidney until the drill-tip touches the stone.



Control panel of the acetylene unit at the American Cyanamid Company's new petrochemicals plant at Fortier, Louisiana. The recorders show the concentration of the gas under analysis by Tri-non analysers. The top recorder shows acetylene concentration, the bottom one methane. Lights on the recorders indicate which of the four burners is being sampled.

BIRTH

COSTIGAN.—Recently, to Nance, wife of Bob Costigan, M.P.S.I., 52 Main Street, Tipperary, a daughter.

MARRIAGES

JONES—DAVIES.—At St. Thomas's Church, Rhyl, Flints, on October 3, Alun Pughe Jones, F.P.S., 1 Millbank Road, Rhyl, to Pauline Ballyn Davies, Elwy Drive, Rhyl.

STUART—FULLERTON. — At South Beach Church, Saltcoats, Ayrshire, on October 5, George Robert Stuart, B.Sc., 16 Maxwell Drive, Glasgow, S.1, to Jean Gertrude Fullerton, B.Sc., M.P.S., Merchiston, Sorbie Road, Ardrossan, Ayrshire.

DEATHS

EUNSON.—In hospital on October 7, Mr. James Ronaldson Eunson, M.P.S., 49 Second Avenue, Glasgow, S.4, aged forty-seven. Mr. Eunson was apprenticed to Mr. Alexander Macsween, St. George's Road, Glasgow, and after qualifying was employed for many years in the Central Drug Store, Glasgow. Lately he was a director of Anderson & Ireland, Ltd., chemists, Glasgow. He is survived by his widow and one son. He was the son of Mr. James R. Eunson who retired three years ago as a buyer with T. & H. Smith, Ltd., in Glasgow.

FINDLAY.—On September 25, Mr. Alfred Wallace Findlay, M.P.S., Oakleigh Pharmacy, Hillingdon Heath, Uxbridge, Middlesex, aged sixty-two.

GADD.—On October 5, Mr. Henry Wippell Gadd, M.P.S., 6 Park Place, Wonford Road, Exeter, Devon, aged eighty-six. Mr. Gadd was chairman of Evans, Gadd & Co., Ltd., wholesale and manufacturing druggists, Exeter. He had been associated with the company since 1886, and was a director from its incorporation in 1902, and chairman for the past twenty-two years. He was secretary of the Drug Club (forerunner of the Association of Pharmaceutical Pharmaceutical British Industry), 1919-30. For some years he was lecturer in pharmacy and materia medica at the University College of the Southwest, Exeter. He was a member of the Middle Temple, having been called to the Bar in 1909, but he did not practise as a barrister. He wrote a number of authoritative works on pharmacy and poisons law; and the various editions of his Synopsis of the Pharmacopæia were much used by students.

GILBERT.—In hospital on October 5, Mr. James Charles Gilbert, O.B.E., aged seventy-one. Mr. Gilbert was a former clerk of the London Insurance Committee and of the London Executive Council.

MATHISON. — Suddenly, on October 4, Mr. William Latto Mathison, M.P.S., 39 Polwarth Gardens, Edinburgh. Mr. Mathison qualified in 1927.

SMYTH.—On October 7, 1955, at his home, 70 Martinez Avenue, Belfast, Mr. Samuel Smyth. Mr. Smyth qualified as a pharmaceutical chemist in Dublin, and registered with the Pharmaceutical Society of Northern Ireland

in 1930. He carried on business for over forty years in Castlereagh Road, Belfast. He retired nine years ago.

WARRINGTON. — On September 28, Mr. Tom Warrington, M.P.S., 33 Belmont Road, Ilfracombe, Devon, aged sixty-five.

WILLIAMS.—At his home, 208 Beverley Road, Kirk Ella, Hull, Yorks, recently, Mr. Robert Harding Williams, M.P.S., aged seventy-three. Mr. Williams was in business at 56 Anlaby Road, Hull. He started in business in Hull in Great Thornton Street, moving later to Anlaby Road where he was bombed out during the 1939–45 war, transferring to other premises in the same road, where he remained in active practice until a few weeks ago. He was a member of the old Chemists' Dental Society. He is survived by his widow and two daughters.

PERSONALITY

ALDERMAN F. H. SWIRE, M.P.S., Halifax, Yorks, has been elected chairman of Halifax Executive Council. Alderman Swire has twice been president of the Halifax Branch of the Pharmaceutical Society. He was elected to Halifax town council in 1947, and appointed an alderman in May 1955. He represents the council on the Halifax Hospital Management Committee.

BUSINESS CHANGES

WARRICK BROTHERS, LTD., 4 Nile Street, London, N.1, are removing to Perkins Street, Coventry (telephone: Coventry 41356) on October 17. From that date all correspondence, orders, remittances, etc., should be sent to the new premises.

Appointments

BEAUTY SERVICES, LTD. (agents for Harriet Hubbard Ayer), 1 Robert Street, London, N.W.1, have appointed Mr. Horace Barns their sales manager with effect from November 7.

NICHOLAS PRODUCTS LABORATORIES, LTD., Buckingham Avenue, Slough, Bucks, have appointed Mr. J. J. Yardley, F.P.S., manager of their ethical pharmaceutical division.

ORTHO PHARMACEUTICAL, LTD., High Wycombe, Bucks, have appointed the following representatives: Mr. R. B. Blaker for North and West London; Mr. D. Brown, South Yorkshire and East Lancashire; Mr. B. L. Jackson, Western Counties; Mr. B. Montgomery, Home Counties.

COMPANY NEWS

Previous year's figures in parentheses

BIRMINGHAM CHEMICAL CO., LTD.—Mr. T. T. Savage has resigned his position as joint managing director.

EVANS MEDICAL SUPPLIES, LTD.—The rights issue of 845,113 ordinary 5s. shares (*C*. & *D*., September 17, p. 307) has been over-subscribed.

GREEFF - CHEMICALS HOLD-INGS, LTD.—An interim dividend of 5 per cent., less income tax, in respect of the year ending December 31 (against 3\frac{3}{4} per cent.) is declared. The

directors point out that the increase in the interim dividend reduces the disparity between it and the final dividends and should not be taken as necessarily implying a larger total distribution for 1955 than that for 1954.

WILLOWS FRANCIS, LTD.—The chairman's statement with the accounts for year ended June 30 reports that turnover of both branches has increased substantially; sales of the company's branded goods were at a record level. Export sales were also higher than any time previously. £15,576 was being expended on capital account. For accounts see C. & D., September 24, p. 341.

HORLICKS, LTD.—Group profits, before tax, for the year ended March 31 are £749,108 (£497,527) and net profits £340,483 (£213,439). Taxation is £408,625 (£284,088). A sum of £161,812 including £61,812 profit on sale of American assets, is transferred to miscellaneous reserves leaving the group carry-forward at £159,035 (£103,751). An unchanged final dividend of 16\frac{2}{3} per cent. together with a bonus of 5 per cent. is recommended making 35 per cent. for the year (against 30 per cent.).

New Companies

P.C .- Private Company; R.O .- Registered Office.

J. I. ELLIS, LTD. (P.C.).—Capital £2,000. To carry on the business of wholesale and retail chemists, etc. Directors: John I. Ellis, M.P.S., and Mair Ellis. R.O.: 157 High Street, Bangor, Caernarvons.

RHEUMA SPA (ZERMO), LTD. (P.C.).—Capital £50,000. To carry on the business of buyers, sellers and dealers in Zermo Pac products and medical pads of all kinds, etc. Solicitors: Stephenson Harwood & Tatham, 16 Old Broad Street, London, E.C.2.

ALEXANDER WHITELAW, LTD. (P.C.).—Registered in Edinburgh. Capital £7,500. To acquire the business of Alexander Whitelaw, M.P.S., of 20 Crossgate, Cupar, carried on by the late Robert S. Whitelaw. Directors: Mrs. D. A. Whitelaw and C. R. G. Samson, M.P.S., 57 Crossgate, Cupar.

INQUEST

Weed-killer Marked "Lime Juice." -Evidence that an aged man took a fatal dose of arsenic by drinking weed-killer kept in a bottle marked "lime juice" was given at a Worcester in-quest recently. A verdict that he succumbed to a sudden impulse while the balance of his mind was disturbed was recorded by the city coroner. The man was Mr. Fred Milea, Squires Walk, Kempsey, who died at the Worcester Royal Infirmary on September 7 from acute arsenical poisoning. The pathologist at the Infirmary declared that a post-mortem examination had shown death to be due to acute arsenical poisoning. It was possible said Dr. Kidd that Mr. Milea had forgotten what was in the bottle and had assumed that it contained lime juice. A staff chemist of the West Midlands Forensic Science Laboratory said that, to produce the quantity of arsenic found in the liver, Mr. Milea would have swallowed about four teaspoonfuls of the liquid.

A FURTHER SELECTION OF

CHRISTMAS GIFT

PACKS

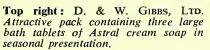


Above: Searchlight Products, Ltd. Melissa compact in the Florentine series. The complete series features many different motifs including hand-cut transparent plastic flowers, marcasite and jewelled designs. The Florentine shape is an elegant six-sided box.

Below: HALEX DIVISION, BRITISH XYLONITE, LTD. Top, left to right: "Pneumatic" combing brush in pink, blue or green pastel pearl. Cresta hair brush in transparent pink, blue and green with rondated nylon tufts. Caress hair brush and comb set in pink, blue or green pastel pearl colours. Centre: Caress three-piece set in pink, blue or green pastel pearl. Bottom: men's military brush in tortoiseshell or ivory finish. Men's combing brush in ivory finish. Military set with two brushes and a comb in leather presentation case.



Above: SAVILLE PERFUMERY, LTD. A novelty pack of June perfume in a wicker-work parasol holder. The parasol is decorated with tulle which is available in a variety of gay colours.



Above: Saville Perfumery, Ltd. Left: Gift size of Tutu perfume in attractive, distinctive box. Right: Trial box of Tutu in bold, colourful presentation pack.







RICHARD HUDNUT, LTD. "Flatter-face" powder-cream compact in soft colouring with nylon washable puff.





D. & W. Gibbs, Ltd. Novelty pack in form of multi-coloured Chinese lanterns of four sachets of Pears Gloria shampoo.

TRADE NOTES

Contract Filling of Aerosols.— Walter Gregory & Co., Ltd., Wellington, Somerset, undertake the contract filling of aerosols for other companies.

Addendum to the Pharmacopæia.—Copies of the Addendum 1955 to the British Pharmacopæia, 1953, may be obtained from the Pharmaceutical Press, 17 Bloomsbury Square, W.C.1. The price of the volume is 21s. (postage one shilling).

Distribution Change. — Under an arrangement between Nu-San, Ltd., and Dalmas, Ltd., Junior Street, Leicester, Messrs. Dalmas ceased on October 1 to manufacture or act as agents for Nu-San products, though they will continue to distribute them to retailers.

Books for Pharmacists.— Baillière, Tindall & Cox, 7 Henrietta Street, London, W.C.2, are the publishers of Bentley's "Textbook of Pharmaceutics," as revised by Dr. Harold Davis; Barber's "Physiology and Pharmacology for Pharmaceutical Students"; and Kingzett's "Chemical Encyclopædia," a 1,198-page volume with foreword by Sir Robert Robinson (president of the British Association, 1955).

No Interference with T.V.—Ronson Products, Ltd., 352 Strand, London, W.C.2, point out—in view of the recent Government announcement regarding suppressors for electrical appliances liable to cause interference with radio and television—that the Ronson electric shaver has no contacts to spark, and cannot, therefore cause interference. The absence of contacts also means that whisker cuttings do not stop the motor.

Sole U.K. Distributors. — Unichem, Ltd., Broadwater Road, London, S.W.17, have been appointed sole distributors to the wholesale trade in Great Britain and Northern Ireland of the products of Serumwerk, Basle, Switzerland, including Otalgan ear drops, as sold in this country prior to 1939. The product is being extensively advertised in the medical Press and is obtainable through normal wholesale channels. The pack is a 6-gm. bottle.

Refunds on Bottles.—In the interest of national economy, Beecham Foods, Ltd., Beecham House, Great West Road, Brentford, Middlesex, are collecting regularly from the trade empty Ribena bottles returned by consumers. Dealers will be credited an additional 5 per cent. handling allowance on all Ribena and Lucozade empties returned. The price is unchanged but, from November 1, threepence bottle deposit will be asked for, refundable on return, if no empty bottle is handed in at the time of purchase.

Prize-winning Assistants. — First prize (£50) in a sales competition organised by Sans Egal International (London), Ltd., 50 Upper Brook Street, London, W.1, goes to Mrs. Sheila H. Meads (John Chaytor, M.P.S.), 6 Hall Green Road, Coventry, Warwicks. Second prize (£20) goes to Mrs. M. E. Hague (W. H. Kemp, Ltd.), 244 City Road, Fenton, Stoke-on-Trent, Staffs; and third (£5) to Miss A. Schwyter (R. P. George, M.P.S.), 9 George Street, Hove, Sussex. There were

twenty-eight consolation prizes. Competitors were required to place selling points for Sans Egal lipstick in order of importance.

Distribution Change.—From October 15 the distribution of products of the German company Schering, A.G., Berlin, is being undertaken by Pharmethicals (London), Ltd., 18 Great Portland Street, London, W.1. The specialities of the company include the x-ray contrast-media, Bıligrafin and

Urografin; the long-acting hormone preparations, Primoteston-depôt, Primogyn-depôt and Primolut-depôt; and the vasolidator product, Praenitrona. From that date British Schering, Ltd., Kensington High Street, London, W.8, will cease to act as distributors for the company.

Bonus Offer

CHAS. H. PHILLIPS CHEMICAL CO., LTD., 179 Acton Vale, London, W.3. Califets laxative tablets. Twelve for price of ten. Till November 30.

NEW PRODUCTS AND PACKS

Counter Pack. — Moore Medicinal Products, Ltd., 1 Queen's Terrace, Aberdeen, have introduced a counter pack of twelve tablets of Noctynol.

Grey Hair Brightener. — Evanol, Ltd., Highbury, London, N.5, have added to their range of hair brighteners "brown No. 18," which is described as "the perfect brightener-cum-rinse-cum-semipermanent tint." It is issued in 1-oz., 2-oz., 10-oz. and 20-oz. bottles.

Twenty-four-hour Treatment Pack.— S. Maw, Son & Sons, Ltd., Barnet, Herts, offer Thromboral, "a complete oral treatment in gastrointestinal hæmorrhage," as a combined pack of thrombin with formalised gelatin. Thrombin, the active constituent, is



buffered with sodium and potassium phosphates, which reduce the gastric pH during the twenty-four hours and prevent the inactivation of the thrombin (protein enzyme) by gastric secretions in the digestive process. Insoluble, flocculent, spray-dried gelatin is administered to act as a "scaffolding" for fibroblasts and granulating tissue, to which the newly forming clot adheres. The pack comprises twelve sachets, each of 250 N.I.H. units of phosphate-buffered thrombin and twelve sachets of formalised gelatin.

A Chewing Laxative. — Califets, a tablet laxative for chewing, has been introduced as a companion to California Syrup of Figs by the Chas. H. Phillips Chemical Co., Ltd., 179 Acton Vale, London, W.3. Califets are "particularly acceptable to children."

Vibro-massage at Home. — A light-weight electric vibro-massage unit, Vibrettc, suitable for home use has been produced by Ann Graham Sales, 39 Great Marlborough Street, London, W.1. Handsomely boxed, Vibrette is supplied with three heads (sponge head

for the face, tooth head for the scalp, and cup head for the feet). The case is of polished polystyrene, and weighs only about six ounces.

"Lipstick" Cologne. — Coty (England), Ltd., 3 Stratford Place, London, W.1, have introduced Twistick solid Cologne, which twists up out of its case like a lipstick. Twistick has no foil to peel off and therefore does not leave a residue under the fingernail. Its airtight screw closure keeps it free from excessive evaporation. Twistick is available in Paris, Chypre, l'Origan, l'Aimant, Muguet des Bois and Four Seasons fragrances.

An Antitussive. — Pfizer, Ltd., 137 Sandgate Road, Folkestone, have launched a new speciality, Toclase brand carbetapentane citrate, which is an antitussive claimed more effective than codeine and free from the disadvantages usually associated with narcotics. It is presented as a liquid containing in each large teaspoonful 7:25 ngm. of carbetapentane citrate with other ingredients in an aromatic demulcent vehicle. Its purpose is the suppression of unproductive irritant and the moderation of useful productive coughs. The packs are a 4-fl-oz. bottle and an 80-fl-oz, dispensing container.

Pastilles as Companion to Syrup.— P. H. Galloway, Ltd., London, S.E.17,



have introduced Galloway's pastilles presenting "all the soothing qualities which have made Galloway's cough syrup famous." The pastilles are sent out in display outer of twelve tins. PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

CONCERN OVER COUNCIL'S PRIZES

Review promised by Education Committee Chairman

THE interest taken in the Pharmaceutical Society's Council prizes and awards had diminished considerably, and the Education Committee must consider whether they should be discontinued, or a revision recommended, said MR. C. W. MAPLETHORPE (chairman of that Committee), at the Council's meeting held in London on October 4. It was reported that the president of the Society had awarded the Society's bronze medal to Donald Patrick Mulholland, the Manchester Pharmaceutical Association scholarship to Ivor Brown, and the first Leverhulme scholarship to Michael L. Wilkinson. No candidate had obtained the minimum marks for the award of the Pereira medal or the silver medal, or for the award of any other scholarship, and the president had directed that those should not be awarded for 1955. It was reported that the examiner was unable to recommend an award of the Umney prize and the Council adopted a recommendation of the Education Committee that that prize should not be awarded for 1955. It was reported that the president had awarded the two Pharmaceutical Society research scholarships to William Boyle, Glasgow, and Ian Louis Natoff, Chelsea, respectively, and the Redwood scholarship to Malcolm Harris, Aberystwyth.

Scholarships

MR. J. F. McNeal expressed concern that in several cases no entrant had secured the minimum number of marks for the award of a scholarship. Mr. D. W. HUDSON said that he had wondered what was happening to the general system of education when, in those scholarship examinations which were really a test in the practice of pharmacy, nobody could make the grade. It was something that required careful consideration by the Council and the Education Committee. Mr. MAPLETHORPE said that the Committee thought that the state of affairs in those practical pharmacy competitions was most unhappy. It must not be forgotten, however, that nowadays nearly every student could obtain payments from his local authority or some other source and did not have to worry about winning a scholarship, any income from which would be deducted from the amount of the local authority award. The Committee would have to look again at those prizes and awards.

The Committee agreed to the recommendation of the Research Scholarships Committee that the regulations relating to the tenure on the awards should be clarified as follows:—

(i) Each scholarship is offered annually for whole-time research in the laboratories of any school of pharmacy in Great Britain approved for the purpose by the Council, or in the research laboratories of the museum of the Society, and is of the value of £350.

(ii) A scholar may apply for an award for a second year, and, for exceptional reasons, for a further award not exceeding one year.

The Committee received from Dr. R. Kohn a final report on his tenure of the Charter travelling scholarship held at the *Instituto Superiore di Sanita*, Rome, with summaries of three papers which were being published.

THE PRESIDENT, reporting the death of Mr. Walter Deacon, said that Mr. Deacon had already had wide experience of public life in Somerset before coming to the Council in 1930. Gifts that had gained him prominence in that sphere were at once in evidence in his work as a member of Council, and he took his full share in the activities of the Society both at headquarters and in the branches.

THE PRESIDENT also reported with regret the deaths of Messrs. R. W. Pilcher (a former secretary of the Royal Institute of Chemistry) and R. L. Collett (a former assistant secretary and registrar of the Institute), both of whom had had a long and close association with the Society.

THE PRESIDENT expressed his satisfaction at the success of the recent assembly in London of the International Pharmaceutical Federation, and of the part played in it by the Society. The Council agreed that thanks should be sent to London University for the use of the Senate House; to the Association of British Pharmaceutical Industry for the exhibition that it had organised, and to the Wellcome Foundation for the historical exhibition and the use of its film theatre.

Dr. B. A. Young (chairman, Establishment and Publications Committee) reported that the books, mortars and drug jars bequeathed to the Society by the late Mr. E. Saville Peck had been received. A short survey had been made by the librarian, but time would be needed for the detailed examination.

Colouring of Tablets

Mr. J. M. Dowty reported that the Society's representatives had urged that the ban on the adding of colouring to tablets should be retained when they met the British Pharmacopæia Commission on September 14. Representatives of the Ministry of Health, the Association of British Pharmaceutical Industry, and the National Pharmaceutical Union were also present. A letter was received from the Commission intimating that it had recommended to the General Medical Council the discontinuance of the use of apothecaries' system in the British Pharmacopæia 1963 and in subsequent editions, and that that recommendation had been accepted. It was hoped that the Council would consider similar action for the Society's publications. A letter had also been sent to the British Medical Association with reference to the future editions of the National Formulary. The secretary was asked to arrange for discussion of that matter with the B.M.A. and the Board of Trade.

Registrar's Report

THE SECRETARY AND REGISTRAR reported that 152 representatives had attended the Branch Representatives' meeting held at Aberdeen in September, and that sixty-eight branches were represented. The Organisation Committee agreed that letters of thanks and appreciation should be sent to the Aberdeen Local Committee and to the three speakers at the meeting for their contributions. It was agreed that a new branch of the Society should be formed in the Finchley area, comprising the borough of Finchley and the urban districts of Barnet, New Barnet, East Barnet, Friern Barnet, Potters Bar and Southgate. A scheme for the annual award of a copy of the British Pharmaceutical Codex as a prize, submitted by the Hull Branch, was approved. It was based on the results of the terminal and sessional examinations in the intermediate pharmacy course at the Hull College of Technology.

The Benevolent Fund and War Aid Committee's report showed that grants had been made to four widows, two members, and one dependant of a member, amounting to £321. Recommendations for grants to seven other widows, amounting to £710, were approved. Two applications for assistance were deferred. The Committee also authorised two special grants amounting to £55. From the War Aid Fund a grant of £156 was made in one case, and a special payment of £15 in another. The quarterly report of the Benevolent Fund showed that in the three months ended September 1955, grants were made in twenty-nine cases, amounting to £1,111, against twenty-five grants and £1,358 in the corresponding quarter of 1954. Receipts in the first nine months of 1955 were £13,512 against £12,096 in the same period of 1954, including subscriptions of £7,305 (£6,397 a year ago). THE SECRETARY reported the receipt of a legacy of £10 to the Benevolent Fund from the estate

of the late Mr. E. J. Cope, Harrow. The receipt was reported of a cheque for £26 from the Watford and St. Albans Branch for Birdsgrove House. Mr. T. HESELTINE (chairman of the Benevolent Fund Committee) called attention to the amount received from Bath contractors through the "penny in the pound" scheme. While former contributors elsewhere had given up that scheme, he said, it was notable that the Bath contractors had contributed £402 by that means from March 1946 to September 1955.

The report of the Ethical Committee noted that a reply had been received from the Home Secretary, to the representations of the Society that methyl pentynol should be placed in the Fourth Schedule to the Poisons Rules. The reply said that if the decision to place the substance in the First Schedule proved inadequate, the Society's suggestion for applying further control would be referred to the Poisons Board. The Council adopted the Committee's recommendation that the advice that members of the Society should supply the drug only on medical or dental pre-

scription should be reiterated.

The report of a meeting of the History of Pharmacy Committee held on July 15 showed that inquiries had been made concerning the writing of the histories of the pharmaceutical departments in teaching hospitals and concerning the position of the study of the history of pharmacy in Scotland and Northern Ireland. Correspondence with a pharmacist in Canada who was interested in collecting medicine stamp labels was reported. Inquiries had produced a collection of old patent medicines sufficiently interesting to preserve. It was suggested that the Society should consider the formation of a collection of old patent medicines. Mr. E. A. BROCKLEHURST said that the History of Pharmacy Committee might find material of interest to them in the several hundred letters received from members of the Society who had been over fifty years in pharmacy.

Changes At Society's House

Dr. Young called attention to the recent alterations that had been made to the ground floor of the Society's house. The removal of the department of pharmaceutics of the School of Pharmacy to Brunswick Square had released for other purposes certain accommodation in the premises at 17 Bloomsbury Square, and had enabled some rearrangements to be made. The examination hall had come back into use as a meeting place, and the room on the left-hand side of the entrance to the building had been converted into a reception and exhibition room, with access to the office in No. 16. Those rooms and the hall and stairs of No. 17 had been redecorated and partly re-equipped. The statue of Jacob Bell now stood out and could be appreciated to the full, and the collection of drug jars could be seen in a setting more worthy of their beauty and value. The transformation of the examination hall had been completed. A colourful mural illustrating the progress of pharmacy through the ages now covered the far end.

The curator of the Society's museum reported that a number of special exhibits had been arranged in the cases of No. 1 museum. Those included a more extended display of "Plastics in Pharmacy" as presented by Messrs. A. G. Fishburn and A. W. Bull at the symposium session of the Aberdeen meeting of the British Pharmaceutical Conference. It was hoped that the cases of No. 1 museum would in future be used for a series of temporary exhibits portraying different aspects of pharmacy, both modern and historical; and that in that way the museum might become a focus of wider interest for all members of the Society. The curator also reported the publication by the emeritus curator (Dr. T. E. Wallis) of Textbook of Pharmacognosy, third edition (Churchill), 1955.

On the recommendation of the Education Committee, the Council approved a number of amendments to the by-laws required in consequence of the operation of the Pharmacy Act, 1954. Reports on the examinations held in July 1955, were received. For the Intermediate examination in Eng-

land and Wales, there were 212 first entries, of whom eighty-five passed, forty-three were referred, eighty-one failed, and three were absent. Of thirty-nine re-entrants, ten passed, five were referred, twenty-three failed, and one was absent. Sixty candidates entered for a referred subject, and thirty-four passed. In Scotland there were 161 first entries for the Intermediate examination, of whom seventy-four passed, twenty-seven were referred, fifty-nine failed, and one was absent. Of sixteen re-entrants, three passed, one was referred, ten failed, and two were absent. Nine out of twelve candidates passed in a referred subject.

Examination Reports

For the Pharmaceutical Chemist Qualifying examination in England and Wales there were 238 first entries, of whom 116 passed, twenty-eight were referred in two subjects and fifty-four in one subject, thirty-nine failed, and one was absent. There were forty-four re-entrants, of whom three passed, three were referred in two subjects and two in one subject, twenty-eight failed, and eight were absent. Fortysix candidates entered for one referred subject and thirtyone passed; and of forty-one who entered for two referred subjects, twenty passed and twenty-one were again referred in both subjects. For forensic pharmacy only there were nineteen entrants, of whom seventeen passed. In Scotland there were 268 first entries for the Pharmaceutical Chemist Qualifying examination, and 131 passed; forty-four were referred in two subjects and forty-nine in one subject, fortytwo failed, and two were absent. Of twenty-six re-entrants, one passed, four were referred in two subjects and six in one subject, twelve failed, and three were absent. Of thirtythree candidates who entered for a referred subject, twentyone passed; and of thirty-two who entered for two referred subjects nineteen passed, twelve being again referred in both subjects. Three candidates entered for forensic pharmacy only and all passed.

The Council accepted an invitation from the Biological Council for the Society to take part as a sponsoring body in the organisation of a symposium on hypotensive drugs.

The Council agreed upon the names of representatives to be invited to serve on the Society's behalf on the Joint Formulary Committee being set up to prepare a new edi-

tion of the National Formulary.

It was reported that in August and September, 297 persons had been registered as students, making a total of 610 in the current year, against 664 in the corresponding period of 1954. On the recommendation of the Law Committee it was agreed that the names of thirteen persons who had applied for registration under reciprocal arrangements should be added to the Register of Pharmaceutical Chemists on submission of the required documents. Reports were received that the names of sixty-five former members and the addresses of twenty-four sets of premises removed from the Registers had been restored on payment of fees and penalties. The Council approved a recommendation of the Law Committee for the re-registration of one person whose name was removed in 1939. Twenty-five applications for registration under Sections XIX (16) and XIX (18) of the Society's By-laws had been approved.

The report of the Law Committee showed that in July and August the Society's inspectors and agents visited 2,262 authorised sellers, twenty-two listed sellers, and 765 drug-store proprietors and similar traders. Twenty-seven cases of alleged infringements of the Pharmacy Acts were considered, and appropriate action was taken.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

XANTHOLINE
MYALGIN
BISCOIDS
VAN H. MARTIN'S Dutch drops
PANCREON PHENOMIN

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Annual Meeting

In his presidential address at the annual meeting of the Pharmaceutical Society of Northern Ireland held in Belfast on October 3, Mr. W. P. EWART said that for a number of years the possibility of a Bill being introduced to establish a Poisons Board in Northern Ireland had been under discussion. It was gratifying to learn that the Bill would be placed before Parliament during its next session. A number of consultations had been held between representatives of the Council and officials of the Ministry and he hoped that the Poisons Board would be formed some time during the autumn of next year. The Council had arranged for the extended Poisons List in the Poisons Guide to be brought up to date and it was hoped to have that in the hands of members soon. He referred to the difficulty occasioned by the introduction of so many new preparations and said that the Council would endeavour when new poisons legislation was introduced to circularise members about preparations affected by the changes.

Film Meetings to be Curtailed

Referring to the monthly meetings held during the year, Mr. Ewart said that a number of lectures, film shows and question programmes had been arranged but he thought that the film shows were not up to their usual standard. It was becoming increasingly difficult to obtain suitable films and the number of such shows was likely to be curtailed. Meetings of the "Question Time" nature seemed to be the most popular and the Council would entertain suggestions from members on the form they should take.

Mr. Ewart said that at the 1954 annual meeting Mr. W. H. Boyd had mentioned that regulations had been introduced on June 1 of that year permitting a candidate only three attempts at the Final Part I examination with a proviso that the Board of Examiners might recommend to the Council that a particular student should have a fourth and final attempt. In the June 1955 Part I, twenty-five students took the examination for the third time and twenty-two had passed; one was ill, one was recommended a fourth attempt and only one failed to satisfy the examiners. That was sufficient justification in itself for the introduction of those regulations. The examiners' reports had shown that candidates presenting themselves were better prepared than was originally the case. In December 1954 the percentage of successes in Part I was twenty-three and in June 1955 it was forty-eight which suggested that "the little push did not do any harm."

On the work of the Benevolent Fund, Mr. Ewart said that for the first time a ball had been held during the year and as a result £100 was raised towards the Fund. He paid tribute to the co-operation of Mr. H. P. Crossin (vicepresident of the Society) who had carried out the duties of president during his (Mr. Ewart's) absence overseas, and to the work of Mr. W. Gorman (secretary of the Society).

MR. JAMES IRWIN moved the adoption of the annual report which showed a credit balance of £325. MR. W. H. BOYD seconded. It was reported that the four retiring members of Council, Messrs. W. H. Boyd, H. W. Gamble, O.B.E., C. A. Quinn and P. R. W. Shinner, had been returned unopposed for a further term of office. Mr. SHINNER returned thanks on behalf of his colleagues.

In reply to Mr. W. H. Boyd, Mr. Ewart said that the number of pharmaceutical chemists on the register in Northern Ireland had risen from 1,020 in 1953 to 1,074 in 1954, an increase of fifty-four. Superintendents of bodies corporate totalled 137 as against 131 the previous year, registered druggists had dropped from twenty-seven to

twenty-six and the number of apprentices had increased from 485 to 492. The number of licences issued to pharmaceutical chemists totalled 684, compared with 637 the previous vear.

MISS NORMA ROBINSON asked the members of Council why it was necessary that the retention fee should be doubled next year when there had been a credit balance of £325. A rise of £1 would result in an extra £1,000 in income next year and even if there was a reduction in examination fees they would not lose as much as £1,000. If the retention fee was raised to 30s, she thought it would meet any additional expenditure which might be incurred. She had also heard that the Council would like to change the Society's premises to a more central area. She thought that they could not have much better than the present premises.

MR. A. W. KERNAHAN said that the fees should have been raised some years ago. It appeared that the Society made a profit of £325 but in fact they had reduced their assets at the same time by £175. They were actually 'running down" their assets and he did not think £2 2s. was an excessive sum for the benefit of being a pharmacist. The Society was running very largely on examination fees from which he understood there had been a net profit of £1,093 during the year. It was most unhealthy that they should be making their profit from that item.

MR. EWART said that they had to raise the fee. Miss Robinson had raised the question of central premises. He was of the opinion that University Street was not central and was unsuitable for the majority of members.

MR. W. GORMAN said that the budget was extremely tight. There were many matters in the minds of the Council before reaching a decision on the increase, and the introduction of the new educational system would probably throw, at least an initially, heavy expenditure on to the Council.

Revision Courses Sought

Mr. Moore, Downpatrick, asked if provision could be made for courses for chemists on the fitting, etc., of surgical hosiery and other appliances. MR, GORMAN said that to the best of his knowledge provision was made for such matters under the Health Services Acts and he wondered if the Health Board would organise such a course if approached. Mr. Kernahan said that he did not know whether any person in Northern Ireland would conduct the course or give lectures on the subject. MR. G. E. MCILHAG-GER said the medical and dental professions made full use of post-graduate courses and some such courses would be of benefit to pharmacists. Mr. Shinner said there was a case for periodic post-graduate courses and a chemist should take a course every five years. MR. EWART said that he was in favour of revision courses of a voluntary nature. It was a matter which could be taken up by Council.

When the debate on the retention fee increase was reopened MR, J. KERR said that the fee was reasonable for the services members received. When was it proposed to introduce the increase? MR. GORMAN said that it could not be stated at the moment just when it would be introduced. No doubt the Council would consider the matter again in the light of the discussion. Mr. Kerr said that the increase was very necessary and the Society's assets of £17,000 were not nearly enough. A separate fund should be opened for the purchase of central premises.

MR. WALTER TATE moved thanks to the president for his

conduct of business during the year.

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Corollary to a Safety Rule

A NEW rule to be enforced at Leicester Royal Infirmary (p. 423), designed as it is to prevent frustration of the check provided by a pharmacist's signature on a slip accompanying drugs to wards, is one that should be adopted in all hospitals. It is, in fact the obvious corollary and completion of any system requiring a pharmacist's signature as a guarantee that drugs have been correctly issued. In future the ward or departmental sister receiving drugs must reject them unless they are accompanied by a slip bearing the pharmacist's signature. So simple and obvious is that safeguard that the marvel is that it has not been universally put into practice before. The point is, however, that the making of a rule affecting staffs of other departments is outside the jurisdiction of the pharmacist and a matter for the The lead given by the management committee. Leicester committee ought to be everywhere applied. We hope it will be given the fullest possible publicity so that that end may be achieved.

The new rule will not, however, meet every situation. It is known that in some hospitals the machinery exists by which drugs may be obtained in emergency in the absence of the pharmacist. It is necessary and proper that such machinery should exist. The responsibility for correctness of drug must there lie with the person collecting it. In case the quantity taken is more than is required for the actual emergency, another rule should be made and enforced that any surplus should be at once returned to the pharmacy and not put with stocks held by wards.

Field of Battle?

It is said that fate leads the willing and drags the unwilling. If that be true, then the fight to which Sir Hugh Linstead referred in his closing address at the recent assembly of the International Pharmaceutical Federation (C. & D., October 1, p. 384), namely the struggle of pharmacy as a profession against industrialisation and commercialisation, must be lost before it is begun.

Industrialism has come to stay, and many would agree that it has brought with it an enhancement, or at any rate potential enhancement, of the pharmacist's professional status. Thanks to the tremendous advances in methods of treatment of disease that industrialism has made possible, the pharmacist's knowledge has now to be wider and more fundamental than ever before; and surely it is on knowledge that one's claim to professional status must be based. Sir Hugh pleaded with the universities and schools of pharmacy to produce pharmacists notable not only for their knowledge but equally for their personality. We should have thought that a man's character was shaped well before he entered the university. The university can do little more than work on the material that it is offered. And if pharmacy itself shows good prospects, then the schools of pharmacy will gain entrants who will have the requisite personality. So far as Britain is concerned, Sir Hugh's remarks on personality would perhaps have more effect if they were addressed, on the one hand, to the Minister of Health, who is responsible for the profit in Health Service dispensing; and on the other to the President of the Board of Trade who, through the Monopolies Commission, can exert so profound an influence on the retail side of pharmacy. The teacher's first concern must be to impart knowledge. The student who acquires that knowledge may then lay claim to professional status. In doing so he has to remember that the inevitable concomitant of knowledge is responsibility. The teacher must take care that what he teaches is suitable and valuable, and Sir Hugh's suggestion that schools of pharmacy must re-examine their syllabuses was a good one. He was right to point out that there is a side to pharmacy other than its scientific one but is agreement likely on what constitutes the other side? Sir Hugh thinks of the other side as the professional one. We would rather look on pharmacy as a profession founded on a knowledge of science and the humanities. We would not agree that business and commerce are by their nature unprofessional. Indeed do not the managerial classes today claim professional status? The doctrine that Sir Hugh seems to favourof professional pharmacy fighting against an impure industrialism and commercialism—is surely a dangerous one, especially for a country that depends for its life, as does Britain, on business and commerce no less than on science and technique.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

CONSISTENTLY BETTER SERVICE?

SIR,—We asked a firm of chemical manufacturers to quote for a certain quantity of each of three chemicals. They replied that they only gave quotations for quantities four times what we asked for, but were prepared to supply smaller quantities against a firm order. They ended their letter "Assuring you of our consistently better service" but gave no price. That leaves us just as we were, and we also wonder how some firms ever do any business.

ANSUM, LTD., NEWCASTLE, STAFFS W. P. RICHARDS

PROPRIETARY MEDICINES FOR MUSEUM

SIR,—Proprietary medicines and the literature concerning them have formed an important part of the history of British pharmacy for several centuries. Many such products are no longer in vogue and unless representative specimens are preserved their existence will be forgotten. The Museum of the Pharmaceutical Society of Great Britain wishes to collect together representative examples of such proprietaries and of literature concerning them (advertising circulars, price lists, etc.). Pharmacists in retail and wholesale practice are invited to donate such materials to the Museum collection and to post them to the undersigned.

17 BLOOMSBURY SQUARE, MUSEUM OF THE PHARMACEUTICAL SOCIETY LONDON, W.C.1

J. M. ROWSON, Curator,

ENLIGHTENING THE PRESCRIBER

SIR,—Any contractor can do something to "educate" doctors whose prescribing is wasteful through unfamiliarity with costs and quantities. A recent prescription named a proprietary vitamin capsule and continued "100,000 i.u. daily. Two months' supply." That would have meant a daily dose of twenty-two capsules. The patient, when asked if the doctor had instructed her as to the number of capsules she was to take, replied "Yes—three capsules each day." When it comes to dressings the prescriber is often working in the dark. He may never have seen the sizes of the packets listed in the Drug Tariff, or realised what a mass of cotton wool is enclosed, say, in a 4-oz. carton when it is opened out. A useful object-lesson may be provided in a pharmacy where the local practitioners are in the habit of

dropping in for consultation with the pharmacist. An illuminated display case contains opened packets of every kind of dressing in common use; festoons of bandages demonstrate how long a 4-yd. bandage really is; and containers of various sizes are filled with many of the lotions, liniments, mouth-washes, powders and ointments included in the National Formulary. As a result of the display the dispensing department is likely to receive fewer prescriptions calling for $\frac{1}{2}$ lb. of absorbent wool to use with an eye-lotion, or a size-8 packet of boric lint for fomenting a gnat bite, or four 1-in. bandages for dressing a cut finger.

WASTE NOT

Onward from Galen

A CURRENT CAUSERIE

An invitation to a "freshers' tea party" had me half wondering whether I should be shaking hands with the Mad Hatter or receiving a bun at the hands of the March Hare. In fact the affair was nothing like that, and I found myself agreeably among thirty or more new students at the School of Pharmacy, London University, plus some older students and staff. The older students were present, I learned, by virtue of holding office in one of the sports and other clubs associated with the School. I had the odd impression the nearest to any that Alice might have experienced that there must be more clubs than new students. If there was no Dormouse, however, there were a stag, an alligator and a dove-symbolic figures on a backcloth that adorns the back of the stage of the newly decorated and handsomely illuminated examination hall, which I last saw a few short weeks ago, as a dense jungle of apparatus, and populated by students at work. No cakes and tea then!



Notes made during a recent tour of the United States by Mr. Sydney F. Body, M.P.S., F.S.M.C., Southend-on-Sea, found their way recently into the office of this paper. They make a sizeable volume—over six dozen pages of typescript. Mr. Body was revisiting the land of his birth, but the notes were not concerned with the changes that had taken place in the meantime. That is not surprising. He left America seventy years ago and was four years old at the time. They do provide a remarkable record of "facts, observations and impressions." Of conditions in pharmacy he mentions that a qualified pharmacist may earn from \$125 to \$150 a week. Average gross profit on total sales is 30 per cent., expenses 18 per cent. of the same figure. "Drug stores" are usually on corner sites and integrated with hotels on a profit-sharing basis. Innovations vary from a "drive-in" pharmacy, in whose forecourt the motorist halts, hands his prescription over an open counter while still in his car, and sits back until it is ready, to others "evidently prospering on a policy of non-merchandising and strict liaison with the medical profession."



THE renaming of streets to eliminate redundant names, although it is a rationalisation process which the Editor of this paper approved in principle recently (C. & D., August 27, p. 225) requires always to be done judiciously. We have a good deal of sympathy with the Exeter pharmacist, Mr. Arthur Conibear, who appealed against the change of name of the thoroughfare in which his business, the St. Loyes Pharmacy, is located from Hope Road to Hoker Road. The city's chief assistant engineer, who appeared in court, is understood to have agreed that Hope Road had been in existence "from time immemorial," and to have accepted that the former mayor in whose honour the renaming took the form it did was in reality not Hoker but Hooker. If the second admission be true then Hocus might be an improvement on either. In the circumstances the presiding magistrate's decision appears arbitrary. Without any reason given (at least in the reports that came into this office) he dismissed the appeal, saying "The name must be in accordance with the City Council's plan." Hope cannot but be the casualty when so little deference, apparently, is paid to long-standing custom or to historical accuracy, to say nothing of euphony.



EVERYONE is aware that costs of most things have risen over the years. By just how much most of us would find it much more difficult to assess. Recently some costs of running University College Hospital a hundred years ago and now have been analysed and compared. Given in the Hospital magazine, they certainly provide some shocks, both as to actual figures and as to percentages of the total. The items tabulated are:—

	1853		1953	
	Cost per % of Bed per total week cost		Cost per Bed per week	% of total cost
Provisions Drugs, Dressings and In-	s. d. 4 7	30°·57	£ s. d. 3 4 8	% 11°15
struments Laundry	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	13·89 4·72 0·83	2 13 6 1 3 10 3 3	9·22 4·11 0·56
Chandlery and Cleaning Salaries, Medical Nursing and other	11	6.11	3 18 2	13.48
Staff Fuel and Light	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10·84 9·44 4·44	13 9 0 1 5 2 1 10 4	46·53 4·34
Maintenance Furniture Rates	1 5 8 1 5	9·44 0·56	1 10 4	5·23 1·25 1·57
Stationery and Miscellane- ous	11112	6.38	14 10	2.56
Stipends of Clinical Professors	5	2.78	_	
	15 0	100.00	29 0 0	100.00

There was one fall in cost. In 1837 the amount spent on leeches was £47 8s. In 1953 it was 26s.

PRO-VOCATIVE CASE

THOSE greetings, we know, are polite in intention;
And convention

Decrees that a "Wotcher!", or poetic "Hail!" Would fail.

Most business houses, we notice, prefer "Dear sir"

That we accept, or the oddly bisexual
But effectual

"Dear sir or madam." Even "Sir," nice and curt, Doesn't hurt.

To "Dear client," " retailer," " pharmacist," " friend" We extend

Our tolerance. But save us from one awful word Which occurred

In capital type of the clearest and blackest
—" DEAR STOCKIST!"

J. J. HAYTON

CREDIT CONTROLS

Hire-purchase sales under two recent orders

A S all those dealers who sell goods upon credit terms are—or certainly should be—aware, the Government introduced an Order earlier this year controlling the terms upon which a whole range of goods (including certain photographic goods) may be sold upon instalment credit.

The original Order (S.I., 1955, No. 297) was subsequently amended on July 26 by S.I., 1955, No. 1130. The two Orders remain currently in force.

The Acts and the Orders

It should be made clear that the Orders are distinct from and additional to the Hire-Purchase Acts. Failure to appreciate the difference can only lead to confusion. The Hire-Purchase Acts apply to all hire-purchase and most credit-sale transactions in which the H.P. or sale price is £300 or less, regardless of the goods involved. The criterion is price of the goods and not the goods themselves, though strictly speaking there is one exception: in England and Northern Ireland transactions in cattle are included up to £1,000. That exception can safely be ignored for present purposes. The Acts and Orders are independent of one another. If the Acts apply, they apply. If the Orders apply, then they apply. All may apply together, or the Orders alone, the Acts alone.

It is not the intention here to deal further with the Acts, beyond noticing that they do not control the terms of the contract as to period, down payment or credit charge, but are designed primarily to ensure that the hirer or buyer is fully aware of his commitments and has some protection against unscrupulous dealings. It must also be remembered that there are different H.P. Acts for England and Wales, for Scotland, and for Northern Ireland. The English and Northern Ireland Acts are virtually identical, but the Scottish Act is largely different.

The control Orders apply to every hire-purchase transaction, and every credit-sale transaction (of nine months or more), if those transactions are in respect of goods listed in the schedule to S.I. 1130, regardless of the price of the goods.

The goods listed include, among other things (schedule to S.I. 1130, item 5) "Photographic cameras and photographic enlargers and lenses therefor and projectors, excluding articles suitable only for industrial and scientific use." In part 2 of the same schedule, however, there is a further exclusion, as follows: "Cinema projectors of 35-mm, gauge or over." Many other goods (including radio, furniture, motor cars and so on) are also covered by the Order, but for the purposes of this article they are not of direct importance.

The Orders, unlike the Acts, apply equally in England Scotland and Northern Ireland. Whereas, too, the penalty for failure to comply with the Acts normally leads only to an unenforceable contract, with such loss as may arise therefrom, the penalty for failure to comply with the Orders not only produces an unenforceable contract, but also renders a trader liable to prosecution and to a greater or lesser fine.

Short-term Credit Sales

Reference has already been made to the fact that creditsales agreements (i.e., agreements in which the legal property in the goods passes immediately to the buyer) are covered by the Orders if the period of repayment is for nine months or more. Conversely, therefore, an agreement for less than nine months (which includes a contract for thirty-eight weeks) are not controlled by the Orders, even though the contract includes goods specified in S.I. 1130. From that fact it becomes clear that a camera could be sold upon a credit-sale agreement on the basis of, for example, 10 per cent. down and thirty-eight weeks to pay.

Having determined where the Orders apply, and to what contracts and to what goods they apply, it remains to consider what rules they lay down. The Orders were designed, as is well known, to restrict the total amount of trade done upon consumer credit terms, and to that end certain minimum deposits and maximum periods of repayment have been laid down. For the photographic items already referred to the terms are a minimum down payment of 331 per cent. of the cash price of the goods, and a maximum period of repayment of twenty-four months. In parenthesis, it may be noted that there is no control under either the Acts or the Orders on the amount of the credit charge. That is at the discretion of the trader. The two rules as to minimum deposit and maximum period are the whole basis of the Orders. The remainder of their contents is devised largely, if not entirely, to prevent evasion by one means or another.

What a Trader Must Do

Space does not permit a close examination of all the regulations, but the following summary of steps a trader must take will, if closely followed, enable him to comply with the current requirements of the Orders.

A trader wishing to dispose of goods to which the Orders apply upon either hire-purchase agreement (of any period) or upon a credit-sale agreement of nine months or more, must:—

- 1. Take a deposit of at least the prescribed percentage of the sum of the cash price and of any maintenance or installation charge to be included in the agreement. That must be paid before the agreement is signed (part exchange, provided the allowance made is "reasonable," is permitted as part of the deposit).
- 2. Draw a written agreement (the agreement *must* be in writing).
- 3. Set out the cash price of the goods clearly on the agreement.
- 4. Set out separately any amount payable for installation or maintenance.
- 5. Draw up the agreement so that the balance is to be paid by approximately equal payments (e.g., twenty-three payments of £1 10s. and one payment of £1 15s. 6d.) at equal intervals spread over a period not exceeding twenty-four months (so far as the photographic items and most other items are concerned, though for one or two items the period is forty-eight months).

Varying an Agreement

Most forms of variation of an agreement are forbidden and "add-on" agreements, substituted agreements and the like are specifically prohibited in so far as "controlled" contracts are concerned.

It is again emphasised that this article is in no sense an exhaustive review of all aspects of the subject, and traders should certainly familiarise themselves with the actual Orders (S.I. 297 and S.I. 1130) which are obtainable from H.M. Stationery Office.

When particular queries arise it may be found desirable to enlist the assistance of the Hire Purchase Trade Association, which is always available to help in answering problems. The Association also publishes special booklets for the guidance of traders, including books dealing specifically with the Hire-Purchase Acts, the Hire-Purchase Orders and other aspects of h.-p. law and practice.

RESEARCH IN THE PHARMACEUTICAL SCIENCES

Discussions on papers presented at the British Pharmaceutical Conference, 1955

(Continued from THE CHEMIST AND DRUGGIST, October 1, p. 387).

Chemical Estimation of Calciferol

WINDING up the discussion of the paper by Mr. Brealey and himself Mr. P. S. STROSS referred to the B.P. identity tests. They were not, he said, specific. There should be some correlation between strength of tablets and the strength of the solution used in the tests, His biological assay limits of error were closer than the limits allowed by the B.P. for the biological assay of vitamin D. In the storage of preparations an important factor was the exclusion of light. He considered the bioassay to be essential despite the wide limits of error.

Antituberculosis Agents I. Bisdialkylaminoalkyl Sulphones

D. EDWARDS and J. B. STENLAKE

A SERIES of bisdialkylaminoalkyl sulphides and sulphones have been prepared for testing as antituberculosis agents. The preliminary bacteriological examination reveals that none of the compounds is of the same order of activity as streptomycin or isoniazid. Compounds with long chains are more active than short chain compounds, whilst sulphides are more active than the corresponding sulphones. The short chain unsaturated sulphone, bis-3-diethylamino-prop-1-enyl sulphone, shows a surprisingly high level of activity.

From The School of Pharmacy, The Royal Technical College, Glasgow.

Discussion

DR. R. F. TIMONEY, Dublin, said that he had prepared methylene sulphone sulphide. It might have some anti-tuberculosis action. Although those compounds were aromatic phenyl sulphides it would be possible to compare them with alkyl compounds. He noted the failure of the authors to prepare bis-3-diethylamino-2-hydroxypropyl sulphone. He would suggest that they should try preparing sulphetrone, which was comparable to a lactone and could be hydrolysed to a sulphone.

DR. G. BROWNLEE, London, said that some of the sulphones had been made and tested before, but the tests were buried in the patent applications. At what stage in the review of literature should the author draw the line? Should he search the patent indexes?

Dr. J. B. Stenlake, Glasgow, said that he was interested in Dr Timoney's compounds. Perhaps chemists relied too much on chemical means of searching literature. A substance might be in patents of use but not characterised in chemical literature. An effort should be made to co-operate with commercial firms.

Magnesium Trisilicate—Antacid Properties and Crystal Structure

J. ARMSTRONG, A. S. BEIDAS, D. J. CRAIK and W. H. STEPHENSON

It has been found that various magnesium trisilicates of commerce, all of

which complied with the B.P. monograph, gave very different antacid responses when tested by the *in vitro* procedure of Armstrong and Martin. The authors draw attention to these differences in B.P. quality magnesium trisilicate, and also to the relationship which exists between the crystal structure of magnesium trisilicate and its antacid performance. Six samples of magnesium trisilicate B.P. which showed marked difference in density were examined and it was found that the antacid responses of the six products were markedly varied.

It would appear that antacid activity of magnesium trisilicate is associated with the degree of distortion of the crystal structure, and that this distortion is possibly related to the amount of "combined water" in the crystal and the way in which it is included in the lattice.

From Boots Pure Drug Co., Ltd., Beeston, Nottingham.

Discussion

DR. G. E. Foster, Dartford, commented on methods for making magnesium trisilicates. The authors had said they could tell the difference between magnesium trisilicate and mixtures of magnesium hydroxide and silicic acid but if magnesium hydroxide had the chance to combine in time with silicic acid then the x-ray crystallographic pattern might change.

MR. N. BRUDNEY, London, said that the water content of magnesium trisilicate might have some influence on antacid properties. Were the samples of trisilicate treated before testing with the Armstrong Martin technique; and had suspensions been examined, because that was often the way in which the trisilicates were administered?

DR. F. HARTLEY, London, said that the B.P. requirements for sorting out less or more efficient magnesium trisilicate were unsatisfactory. How could those requirements be amended to eliminate the less satisfactory specimens?

MR. STEPHENSON, replying, said the authors were not concerned with manufacture. He had used straightforward material as supplied by the manufacturers. He thought that it was necessary to work to obtain a magnesium trisilicate which would give quick neutralisation with a rise to ph 6 in fifteen minutes and up to a maximum of 3 in three hours. A magnesium trisilicate which absorbed 175 mils of acid in fifteen minutes and as near 300 mils as possible in three hours would be suitable.

Hydrolysis of Aspirin in Pharmaceutical Preparations

L. J. EDWARDS, D. N. GORE,
H. D. C. RAPSON and MARY P. TAYLOR
DIFFICULTIES met in applying the B.P. colorimetric test for free salicylic acid in aspirin and tablets of aspirin prompted an investigation of the kinetics of aspirin hydrolysis and of conditions affecting the formation and

stability of the ferric-salicylate complex. Proprietary tablets and powders containing aspirin were examined, some of the tablets also containing codeine, phenacetin and caffeine.

A spectrophotometric method, designed to take into account various factors affecting the accuracy of estimations, is described and a special procedure is recommended where phosphates, sulphates or citrates might be expected to interfere.

From the Beecham Research Laboratories, Brockham Park, Surrey.

Discussion

DR. D. C. GARRATT, Nottingham, appealed to analysts to use a sense of proportion in those limit tests. For compound aspirin tablets, the authors had produced a useful test. The colour in the test was very low considering the amount of aspirin used. Could the authors modify the test to obtain a greater depth of colour?

greater depth of colour?

DR. W. MITCHELL, London, said that no public analyst had ever launched a prosecution against a manufacturer because of the free salicylic acid in a sample of aspirin, because the B.P. test usually ended with the standard colour one shade and the test solution a different one. No analyst would take a case to court and admit that his test showed such discrepancies. He agreed with Dr. Garratt that if one turned every test like that into a fine art, life would be rather difficult. The consumer in the last resort had to pay for all that extra testing.

DR. G. E. FOSTER, Dartford, said that one of the reasons the assay of the percentage in the compound tablets had not been attempted before was because many people did not know how to do it. The factors involved were numerous. The aspirin was hydrolysing all the time, so the test solution might contain more salicylic acid than was originally present in the tablet. In the benzene extraction process, had the authors any evidence of the aspirin hydrolysing while the ex-traction was in progress? What was the time required for the ferric reagent to give the maximum colour with the free salicylic acid? In compound aspirin tablets there was more free salicylic acid than in the simple ones, calculated on the aspirin content. There must be a limit to the amount of free salicylic acid present in a tablet. The test indicated how carefully tablets made with aspirin had been manufactured and stored. With regard to the actual limit to be tolerated in a compound tablet, it would be reasonable to say about three times the amount of free salicylic acid permitted in B.P. aspirin tablets, calculated on the aspirin content.

MR. H. E. BROOKES, Nottingham, said that it was refreshing that the authors had put in the mechanism of their reaction. From the calculation of the hydrolysis of aspirin, the rate shown was approximately 7–8 per cent.

per hour. Aspirin must have irritant properties if that were the rate of hydrolysis in the gut. Therefore was the narrow limit for free salicylic acid in the tablet really necessary? Any large extent of decomposition would be detectable by the odour of acetic acid.

MR. C. A. JOHNSON, Nottingham, said he and his co-workers had tried the author's method B, but had found difficulty in extraction within ten minutes. The solution obtained was increasing in optical density quite rapidly, showing that hydrolysis was going on.

MR. R. L. STEPHENS, Brighton, said that they should make certain that conditions of storage laid down for the compound tablets would enable pharmacists to store them under conditions that would keep them within the specified limits.

DR. G. DARE, Leeds, said that, on the assumption that the present pharmacopæial test was to be carried out by analysts, there was no justification for increasing the permissible limits.

THE CHAIRMAN (Dr. H. Davis) said that more stringent tests had no pharmacological significance, but were extremely good sales promotion.

Mr. Gore, replying, said that, if stringent standards were necessary, there should be a test commensurate with the stringency of the standards. It was not possible to store aspirin in some circumstances and keep it within the B.P. limits. He agreed that it was difficult to match the colours in the B.P. test. If the extraction were done by the suggested method, care must be taken that aspirin particles did not get through. The colour of acetic acid on decomposition was due to the amount of acetic acid present. As acetic acid was volatile, the test on salicylic acid content was better.

Aspidosperma Barks

J. D. KULKARNI, J. M. ROWSON and G. E. TREASE

II. Microscopy of Aspidosperma excelsum Benth.

THE histology of the bark of Aspidosperma excelsum, as seen in sections, maceration and powder, is described and illustrated. The diagnostic characters by which the bark may be identified and distinguished from those of A. ulei and A. quebracho-blanco are tabulated and discussed. The dimensions of cork, phellogen, sclereids, cortical parenchyma, latex canals, phloem parenchyma, fibres, starch and calcium oxalate crystals are recorded.

III. Microscopy of Aspidosperma Album Vahl

THE bark of Aspidosperma album is similarly examined.

From the Department of Pharmacy, University of Nottingham, and the Museum of the Pharmaceutical Society.

Mr. G. R. A. SHORT, London, said that he had heard that the barks had active principles with a rauwolfia action; they might be found useful in the future.

Dr. F. FISH, Glasgow, asked whether the authors had intended to show such an extreme range in the size of the latex canal. Were isolated fibres in a phloem sheath as unique as he thought they were? If so he thought that a special mention was necessary. Starch granules were shown in the drawing of cortical parenchyma of excelsum. The phloem and medullary rays were not shown to contain starch, but they did. The striations of the starch granules, which were shown in the drawings, should have been mentioned in the paper itself. The maxi-

mum size of granules in the three species examined so far was 15 microns, but in the fourth specie, Album, examined in paper 3, the maximum size was 28 microns. That should have been mentioned as a distinguishing feature between Album and the other three barks. He suggested that the papers might have been given as one.

Mr. Kulkarni, replying to the discussion, said that there were fifty-two species in the genus and pharmacog-nostical work had been taken up on six of them. Work was now in progress

on two more.

Dr. Rowson said that Alstonia was being grown in Australia and being sold on the market as a source of reserpine. He could not offer any explanation for the wide variety in colour of the inner bark of quebrachoblanco, but he was hoping to publish further details of blanco after research on a further five species.

MR. J. WALKER, B.Pharm., F.P.S., A.R.I.C., who was the co-author of

paper on configuration of a 1 p haprodine and betaprodine, is a lec-turer in pharmaceutical chemistry in the School o f Pharmacy, Chelsea Polytechnic London, S.W.3. Afteran appren ticeship in retail pharmacy



and service during the 1939-45 war, he studied for the B.Pharm. degree of London University at Woolwich and Chelsea Polytechnics.

Papers presented at the general assembly of the International Pharmaceutical Federation in London in September

THE papers that follow were presented at the meetings of the section of hospital pharmacists.

Practice in Austrian Hospital **Pharmacies**

E. SOOS, AUSTRIA

No official pharmacopæia has been compiled for use in Austria; the officially-recognised book is still the D.A.B.G. (German Pharmacopæia) 1926 in which no methods are laid down for the preparation of injections. Although it has been left to the pharmacist to decide on the design of the necessary equipment, the methods used, at least in the hospitals of the larger towns, are in accord with modern towns, are in accord with modern trends, and accidents for which the pharmacist can be blamed practically never occur. The provision of adequately spacious rooms is of primary importance. The floor, like the benches, should contain no grooves, and the walls and ceiling should be pain. the walls and ceiling should be pain-Doors and windows should fit tightly, and the entrance to the filling room, which should be served with air under positive pressure, should be through an air-trap. Incoming air is

led through a charcoal filter, dried, and passed through sterile wadding into the room. Ultra-violet irradiation for \frac{1}{2}-1 hour has been shown to be effective, in conjunction with which air disinfection is carried out by "atomising" a bactericidal solution. Sterile clothing, including special shoes, should be worn by all operators. A rust-free steel, electrically-heated still with a spiral condenser and aluminium receiver, which is kept at 70-90° to maintain sterility in event of accidental con-tamination, is used for the preparation and storage of apyrogenic water. It is essential to have a range of filters available. Injection solutions up to 10 mils in volume may be sterilised by heating with a bactericide, as in the British Pharmacopeia process. In the case of infusion fluids, the addition of a bacteriostatic is not forbidden as in the B.P., but must be added only at the discretion of the doctor.

Pyrogens

M. DORCHE, FRANCE

A REVIEW of work done on pyrogens since the Rome Conference in 1951 and discussion of the mechanism

of the pyrogenic reaction. Techniques for pyrogen estimation by the British Pharmacopæia and the French Codex are compared.

Containers and Closures

K. STEIGER, SWITZERLAND

CONTAINERS for infusion solutions should (a) not react in any way with the solution; (b) be sufficiently strong to withstand heat and pressure differences; (c) be transparent and colourless; (d) protect the contents from harmful radiation, especially ultraviolet rays; (e) permit easy cleaning; (f) be inexpensive; (g) be capable of being re-used many times. For the hospital pharmacist, the important thing is that the surface of the container should not react with the injection. Plastic containers should be tested for extraction of H+, OH-, NH₄+, F-, and Cl- ions and there should be a limit for reducing agents, aldehydes and phenols. As a minimum standard, all infusion containers should remain unchanged after heating at 200° C. for two hours. They should also have a certain minimum breaking-resistance. A minimum pressure stability of five

atmospheres and a maximum of the tolerated filling degree of 0.8 is advisable. Closures should give an air- and liquid-tight seal; should not release harmful substances into the solution; should not extract substances from solution; should not undergo any change at sterilising temperatures, should permit easy withdrawal of the contents of the bottle; should be easy to clean and be re-usable. Another problem that should be borne in mind is the possible absorption of phenol and other preservatives.

Sterilisation in the Autoclave

F. MARTIN, BELGIUM
THE time lag in an autoclave between the temperature achieved in the material and the readings on the instrument and errors due to air pockets in autoclaves is considered. Modifications of technique and their effect on the speed of the temperature rise of ampoules and bottles in the autoclaves are discussed.

Route Vehicle and Absorption

G. VALLETTE AND R. CAVIER, FRANCE By a previously tried method founded on the enhanced muscular contractility in the rat produced by eserine the authors have made a study of the absorption of the alkaloid by the cardiac, intramuscular, peritoneal, duodenal, rectal, and subcutaneous routes both in oily and aqueous media. The relation between concentration and onset of action are summarised in terms of rapidity of absorption, by the various routes in aqueous and oily media. In aqueous media the order of efficacy was, in descending order, by cardiac > muscular > peritoneal and duodenal > rectal subcutaneous administration. oily solutions of eserine base, the order was intramuscular > rectal > subcutan-eous. Solutions in ethyl oleate gave results roughly intermediate.

Percutaneous Administration

J. W. HADGRAFT, GREAT BRITAIN THE skin is highly selective in the substances it allows to penetrate to the underlying tissues. Resistance to penetration is maintained by both physical and physiological mechanisms. natural fat and waxes of the sebum physically resist penetration of aqueous solutions. Electrical forces in the keratin layer regulate absorption. If the normal pH of the skin is disturbed the keratin layer becomes more permeable to the passage of water and irritating substances. Medicaments applied externally to the skin are absorbed mainly through the hair follicles; to a lesser degree through the sweat glands. Before a substance can be absorbed, it must be able to pass through the sebum to the absorbing cells at the base of the hair follicle. The release of the sub-stance at the base of the hair follicle depends upon its ability to dissolve in the tissue fluids. Degreasing the skin with organic solvents may render it permeable to aqueous solutions. Resistance to water-soluble substances is increased by ointments containing cholesterol. Animal and vegetable oils more readily penetrate the skin than mineral oils. Of aliphatic hydrocarbons, maximal absorption occurs when the length of the carbon chain is between C₆ and C₁₀. Volatile oils are amongst the organic liquids most readily absorbed. Substances capable of penetrating the skin are generally better absorbed when administered percutaneously as a solution in organic liquids. Fat solvents may promote penetration by their action in degreasing the skin. Water-soluble electrolytes which do not normally penetrate the skin may do so after previous treatment of the skin with an organic solvent. There is little evidence that surface-active agents in-

crease percutaneous absorption when incorporated in ointment bases. Percutaneous administration is unlikely to have more than a limited application in clinical treatment. It is mostly used when a localised action of the drug is required in a particular region of the body, and, occasionally, for administering drugs that require their concentration to be built up gradually and maintained at a constant level. In industry, percutaneous absorption of toxic substances constitutes an occupational hazard.

THIRD URDANG MEDAL

DR. D. Rafael Folch Andreu, Madrid, Spain, was presented with the third George Urdang medal at a meeting of the International Academy of the History of Pharmacy in London on September 20. The ceremony was performed on behalf of the American Institute of the History of Pharmacy and the pharmacy faculty of the University of Wisconsin by Dr. Glenn Sonnedecker (secretary of the Institute). Dr. Sonne-DECKER said that the American Institute of the History of Pharmacy hoped with the Urdang medal to help stimulate and recognise historical writings of unusual merit and insight, whereever they might appear. That aim harmonised with the aims of the Inter-national Academy of the History of Pharmacy and it was thus appropriate that the American Institute had the cooperation of the Academy in the difficult task of selecting recipients of the Urdang medal. At least thirty-four publications testified to the eminence as a historian of pharmacy of Dr. Folch. Possibly his most widely known book was Elementos de Historia de la Farmacia. He became a practitioner of pharmacy in 1900. Four years later he earned the Doctor of Pharmacy degree at Madrid, excelling in the history of pharmacy, From 1911 to his retirement

in 1951 he was professor of the history of pharmacy at the Universidad de Madrid. Dr. Folch was the founder of the Sociedad espanola de Historia de la Farmacia and serves now as its president. The World Union of Societies of Pharmaceutical History had honoured him with the vice-presidency, and he was, of course, a member of the International Academy for the History of Pharmacy. Spanish pharmacy at large recognised and utilised his abilities by making him twice president, as well as honorary president, of the Union Farmaceutica Nacional, chairman of the Comision de la Farmacopea Espanola, and director of the Centro Técnico de Farmacobiologica.

Apothecaries' Vessels in London

Prior to the presentation, Miss Agnes Lothian (librarian of the Pharmaceutical Society) gave an address on "Vessels for Apothecaries in London Collections," in which she outlined the history of the manufacture of English delftware. She then took her audience on an imaginary tour of various museums and galleries in London, particularly those containing material of pharmaceutical interest. The reading of a number of papers on the part played by pharmacists in the discovery of coal gas followed.



OVERSEAS PHARMACISTS AT APOTHECARIES' HALL. During the recent assembly of the International Pharmaceutical Federation in London, about thirty hospital pharmacists were conducted round the Apothecaries' Hall by Mr. T. D. Whittet, who is a Freeman of the Society of Apothecaries, Mr. Whittet gave an explanation of the place of the apothecaries in the English scene, For about three hundred years the Society conducted a pharmacy, and members of the Society founded the Chelsea Physic Garden and the pharmaceutical firms of Savory & Moore, and Allen & Hanburys. The party was shown round all the principal rooms of the Hall and also saw the Society's valuable collection of paintings, drug jars and other exhibits.



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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 12: A little more activity was reported in some sections of the Crude Drugs market during the week, though the overall volume of business was still at a disappointing level and well below the seasonal

Among the few items for which there was a good call was TOLU BALSAM; the genuine-as-imported has now cleared on the spot and fresh supplies are not expected before December, meanwhile a fair business is being done in the so-called B.P. grade. Among SPICES more interest was shown by buyers in Pepper. Nutmegs and Ginger both held their gains of the previous week, but other items were neglected. COPAIBA BALSAM was easier, particularly the insoluble variety. Holders of Buchu are now asking 7s, per lb. for the rounds (up threepence). Papain was sixpence per lb. down for the East African No. 1. Business was done in Prime Cape Aloes for shipment at 275s. per cwt., c.i.f., but it could not be repeated. Gum ACACIA and SARSA-PARILLA showed an easier tendency on the spot as did Colombian IPECACU-ANHA for shipment.

The SHELLAC market in India was firm and active, with trading reported at improved prices. Supplies have become somewhat scarce there and the London spot values are consequently advanced.

No changes were reported by the manufacturers of PHARMACEUTICAL

CHEMICALS.

Business in Essential Oils continued dull. Among the oils which were marked down for spot supplies were Citronella (Ceylon by one penny and Formosan by threepence per CLOVE LEAF by threepence and PATCHOULI by one shilling. Shipment offers of ANISE and LEMONGRASS were slightly dearer.

Pharmaceutical Chemicals

AMPHETAMINE. — Prices (per kilo) for 25-kilo lots are as follows:—BASE, 160s.; SULPHATE, 130s.; d-Amphetamine, 550s.

Aneurine hydrochloride. — Price per lo is £29 5s, with 10-kilo lots at £29 2s. 6d. per kilo.

BENZAMINE.—In 16-oz, lots Lactate is 15s. 3d. per oz. and Hydrochloride, 16s. 3d. per oz.

BENZOCAINE. — Minimum price for B.P. is 20s. 6d. per lb.

BENZOIC ACID.—1-cwt. lots are 2s. $11\frac{1}{2}$ d. er lb. The SODIUM SALT is 2s. $9\frac{1}{2}$ d. per lb. in 1-cwt. lots.

Bromides. — Potassium B.P. crystals in 5-cwt. lots are 2s. 11½d. per lb.; 1-cwt., 3s. 0½d. per lb. Powder is 1½d. per lb. more. Ammonium is 3s. 1d. per lb. in 5-cwt. lots and Sodium, 2s. 10½d. per lb.

BRUCINE.—ALKALOID is from 1s. 8d. to 1s. $9\frac{1}{2}$ d. per oz. and nitrate and sulphate from 1s. 7d. to 1s. $8\frac{1}{2}$ d. per oz.

CAFFEINE.—For 1-cwt. lots, Alkaloid, B.P. is 21s, 9d. per lb.; Anhydrous Alkaloid, 22s. 9d.; and Citrate, 14s. 3d. Sodium iodide, 24s. 9d.

CALCIFEROL.—B.P. is 4s, per gm. for 100-gm. lots and 3s, 9d, per gm. for 500-gm.

CALCIUM PANTOTHENATE.—Price per kilo is £32 10s.

CREOSOTE.—B.P. quality ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per

7-DEHYDROCHOLESTEROL, ACTIVATED. Price is 4d. per million units for less than 1,000 m.u. and $3\frac{1}{2}$ d. for 1,000 to 5,000 m.u.

DICOPHANE (DDT).—Prices are as follows:—l-cwt. lots, 3s. ld. per lb.; 1-ton, 2s. 10d. Discount for larger quantities.

ERGOTOXINE ETHANESULPHONATE.—Price per gm. for B.P.C. (1949) is: 1 gm., 168s. 9d.; 10 gm., 155s. 3d.

FOLIC ACID.—B.P. and U.S.P. is offered at 9s. 6d. per gm. in 1-kilo lots.

Gualacols. — Liquid, B.P., is 16s. 3d. per lb. for 28-lb. lots; crystals, 16s. 9d.; carbonate, 18s. 3d.

HYDRAZINE HYDRATE.—Price per ton is £153 for the 10 per cent (w/v) solution and £33 for the $2\frac{1}{2}$ per cent.

HYDROQUINONE.—Quotations for 1-cwt. lots are 10s. 6d. per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

Lactose.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £137 per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 150s. per cwt. for 5-cwt. lots and 124s. per cwt. for 1-ton lots.

Magnesium hydroxide.—Makers' prices for B.P.C., are, 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

Magnesium oxide, B.P. — Bulk rates are as follows: LIGHT, 3s. 3d. per lb., and Heavy, 5s. 4d. per lb. for minimum 1-ton lots.

Menaphthone. — B.P. is £13 per kilo; ACETOMENAPHTHONE, B.P., £13; WATER-SOL-UBLE (menadione sodium bisulphite, U.S.P.) £16 per kilo.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm., as to quantity. NICOTINIC ACID.—Prices per kilo are 78s. for 1-kilo and 70s. for 50-kilo lots.

PHENACETIN. — In 5-cwt. lots makers price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PIPERAZINE. — Quotations for HYDRATE are from 20s. 6d. per lb. with CITRATE at 28s. per 1b.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.

Pyridoxine. — Manufacturers' rate is £170 per kilo.

RIBOFLAVINE. — Price (per kilo) is £36 15s. for 1-kilo and £36 12s. 6d. for 10-kilo lots.

SODIUM CARBONATE.—B.P. exsiccated is 60s. 6d. per cwt.

VITAMIN A.—Supplied in strengths of 200,000 international units per gm. the price is 1s. 1d. per million i.u.

VITAMIN D.—In oil, 2 million units per gm. the price is from 2d. to 3d. per m.i.u. as to quantity. Crystalline see under calciferol. D₃ see under 7-dehydrocholesterol, activated.

VITAMIN E (synthetic). — Tocopheryl Acetate, B.P.C., 10 gm. to 100 gm., 1s. 6d. per gm.; 100 gm. to 1 kilo, 1s. 3d. per gm., 1 kilo and under 10 kilos, £60 per kilo. The equivalent rates for racemic

Tocopherol (unesterified) are 1s. 8d. per gm.; 1s. 5d. per gm. and £66 per kilo.

Industrial Organic Chemicals

ACETALDEHYDE. — The 100 per cent, is 140s, per cwt, for drum lots and the 40 per cent., 149s.

ACETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 236s. and B.S.S., 238s.; BUTYL (B.S. 551: 1950), 165s.; ETHYL (B.S. 553: 1950), 134s.; ISOPROPYL, 133s.

ACETONE.—Drum lots are quoted at £90

BENZENE. — Thiophene-free is 9s. 0½d. per gall. in 50-gall. barrels and pure, 6s. 0½d. per gall.

N-BUTYL ALCOHOL.—2-ton lots are quoted at £145 per ton and one-drum lots at £149 per ton. Secondary is £121 and £125. All in one delivery.

CARBON TETRACHLORIDE, B.P. — 1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £81 per ton; 1 ton and under 2 tons, £79 10s.; 2 tons and under 4 tons, £79; 4 tons and upwards, £78.

DIMETHYL ACETATE. — Drum lots are quoted at 163s, per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 16s. 3d. to 19s. per gall., as to quantity.

METHYL ETHYL KETONE. — One-ton lots are quoted at £135 per ton.

METHYL ISOBUTYL CARBINOL.—Minimum price (10-ton lots in one delivery) is £153 per ton.

METHYL ISOBUTYL KETONE.—One-ton lots are £161 per ton with usual differentials for smaller quantities.

Naphthalene. — Home market prices (per ton for 4-ton lots at one time) are (per ton for 4-ton lots at one time) are as follows:—CRUDE WHIZZED, c.p. 74-77-5° C., £24 10s, to £30, according to the crystallising point; Hot-pressed, minimum c.p. 77-6° C., £41—both ex makers' works; CRYSTALS, £62, delivered; BALL and FLAKE, £70 10s., delivered. The approximate export prices (f.o.b.) for 25-ton lots are from £40 to £44 for the crude whizzed; £46 for hot-pressed, while crystals are £64 10s. and ball and flake both £73 per ton. both £73 per ton.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISOBUTYL, 1s. 11d.; DIETHYL (normal grade), 1s. 11¼d.; DI-METHYL, 1s. 8¾d.

STEARATES.—Prices for minimum 1-ton lots are as follows:—Aluminium (all grades), 244s. 6d., per cwt.; Calcium (precipitated), 222s. 6d.; Lead (30 per cent.), 229s. 6d.; Lithium (ordinary quality), 461s. 6d.; Magnesium (standard) 256s. and (superfine), 286s.; Zinc, B.P., 276c. 276s.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are now offered at 3s. 6d. per lb., duty paid.

AGAR. — Kobé No. 1 is 12s. 9d. per lb., in bond and 14s. 6d., duty paid. Shipment offers are 11s. 9d., c.i.f.

ALOES.—Prime Cape for shipment is 275s, per cwt., c.i.f., nominal. Spot value is about 305s. Curaçao is 350s. spot and shipment, 315s. landed.

Aniseed (STAR). — Chinese is 145s. per cwt. in bond and 138s., c.i.f.

Areca Nuts. — Quotations are about 40s. per cwt. for Ceylon material on the spot. Shipment, 45s., c.i.f.,

ASAFŒTIDA.—Persian block is from £10 to £14 per cwt., duty paid, as to quality. BALSAMS.—Quotations (per lb.) are:-Canada: spot offers are now 20s. and for shipment, 19s., c.i.f. Copaiba, insoluble is 6s., and soluble, 7s. 6d., both in bond. Peru is 8s. 9d. in bond. Tolu (genuine as imported) is cleared on the spot; B.P. is 17s. 6d., spot.

Belladonna. — Root is offered at from 2s. to 2s. 3d. per lb. as to test, and Leaves about 3s., duty paid.

BENZOIN.—Sumatra block on the spot is from £25 to £32 per cwt.

BISMUTH METAL. — Minimum rate is 16s. 6d. per lb.

BUCHU.—Rounds on the spot are now 7s. per lb.; no shipment offers.

CAMPHOR.—B.P. POWDER is 7s. per lb., duty paid. TABLETS, \(\frac{1}{3}\)-oz. are 8s. 6d., duty paid, and 7s. 3d., c.i.f.

Cardamoms. — Aleppy greens are 16s. per lb., afloat; spot are 17s. 9d. per lb., nominal; October-November shipment, 14s. 6d., c.i.f.

Cascara Sagrada.—American 1954 peel is 260s. per cwt., duty paid. Offers of new-crop remain firm around 240s., c.i.f.

CHAMOMILE. — Belgian flowers are 5s. 3d. per lb. on the spot.

CHILLIES. — Mombasa spot supplies offered at 380s. per cwt. Shipment, 345s., c.i.f.

COCILLANA. — Bark is 3s. 3d. per lb. on the spot.

GENTIAN.—Firm. French natural root on the spot is from 125s. to 130s. per cwt. with shipment at 125s., c.i.f.

GINGER.—African is valued on the spot at 270s, per cwt., c.i.f. Jamaican No. 3 is 410s, on the spot.

GUM ACACIA. — Kordofan cleaned sorts on the spot are firm at 145s, per cwt. and October shipment at 138s., c.i.f.

HENNA.—Whole leaf: Indian is 90s. per cwt. for the green; Egyptian, 100s.

IPECACUANHA. — Nicaraguan is being offered for shipment at 67s. per lb., c.i.f.; Colombian at 50s. (November–December), c.i.f. Matto Grosso, 60s., c.i.f. Spot Colombian is 57s. 6d. and Matto Grosso, 63s.

KARAYA. — No. 1 gum on the spot is quoted at 340s. per cwt., and No. 2 at 290s.

LIQUORICE. — Quotations for Anatolian are 70s. per cwt.; Russian, 57s. 6d. to 65s.; Persian, 38s. to 45s. per cwt. as to quantity, and Chinese, 50s., all for spot supplies. Shipment, Syrian, 56s., c. and f. Block juice quotations are 220s, per cwt., on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

LOBELIA HERB. — Scarce. Prompt shipment offers are about 9s. 6d. per lb., c.i.f.

Male Fern. — A parcel of Bulgarian is offered on the spot at 50s. per cwt.

MENTHOL.—Chinese is 56s., duty paid, spot, and 53s., c.i.f.

Mercury. — Nominal spot value is £90 to £91 10s, per flask of 76-lb, ex ware-house.

MYRRH.—Aden selected sorts are short on the spot with £16 per cwt, now asked, Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 3s. 4d. per lb. on the spot. Shipment, unassorted at 2s. $6\frac{3}{4}$ d., c.i.f.

ORRIS ROOT. — Florentine for shipment is 270s. per cwt., c.i.f. Spot sellers at 320s.

PAPAIN. — Spot value for East African grade one is from 17s. to 17s. 6d. per lb. Ceylon brown is 14s. per lb., c.i.f.

PEPPER. — More interest shown. White Sarawak on the spot is 3s. 3d. per lb.; October shipment, 3s. 2d., c.i.f. Black Sarawak is 2s. 6\frac{1}{3}d., spot, with October shipment offered at 2s. 4d., c.i.f. Black Malabar is nominal at 420s. per cwt. spot; November shipment, 305s., c.i.f.

SARSAPARILLA.—Jamaican native red on the spot is about 3s. 6d. per lb. and for shipment, 3s. $1\frac{1}{2}$ d., c.i.f.

SASSAFRAS BARK. — Selected is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

SEEDS. — (Per cwt.). ANISE.—Cyprian offered at 265s., spot; new-crop Tunisian now arrived, 255s. quoted duty paid. CARAWAY. — Dutch is 150s., spot, duty paid. CELERY. — Indian are on offer at 140s., spot. CORIANDER. — Market firm. Spot: Morocco are nominal at 95s., duty paid. Danubian or Rumanian, 75s., duty paid. Danubian or Rumanian, 75s., duty paid; splits, 57s. 6d., duty paid. Morocco have been offering for October shipment at 70s., c.i.f. CUMIN. — Market firm at origin. Spot, Cyprian is selling at 130s. Morocco old-crop offering 135s., duty paid. For shipment Cyprian is 118s. 6d., c.i.f., and Morocco firm at 135s., c.i.f. DILL. — Indian unchanged with sellers at 67s. 6d., spot. FENNEL. — Indian quiet at 87s. 6d.; Chinese, 85s., in bond, both spot London. FENUGREEK. — Firm, Morocco 65s., spot, duty paid. October-November shipment quoted at 52s. 6d., c.i.f. Mustard. — English, 62s. 6d. to 80s., according to quality.

SERPENTARIA.—Spot market almost bare. Offers for shipment at 35s. 6d., landed terms.

SHELLAC. — F.O.T.N. is 350s. per cwt.; F.O. No. 1, 370s.; fine orange, 410s. to 470s.

STYRAX.—Spot is 5s. 8d. per 1b.

TURMERIC.—Madras finger on the spot is 160s. to 165s. per cwt.

Essential and Expressed Oils

ANISE.—Chinese is quoted at 18s. per lb. on the spot and 17s. 9d., c.i.f.

Camphor, white. — Chinese is 2s. 9d. per lb., duty paid.

Cananga. — Spot is from 56s, to 60s, 6d.

CARAWAY.—English-distilled is offered at 55s. and imported at 31s. 6d. per lb. duty paid.

CASSIA. — Original drums are about 14s. per lb. on the spot.

CASTOR. — In minimum 2-ton lots the price of pharmaceutical quality for delivery up to December 31 is £126 per ton, naked ex mill.

CEDARWOOD.—1-cwt. lots of American are 6s. 6d. per lb.

CHAMOMILE. — English oil is offered at from 240s. to 256s. per lb.

CHENOPODIUM.—1-cwt. lots are quoted at 38s. per lb.

CINNAMON. — From quillings, English distilled is quoted at 30s. per oz. Other B.P. oils available down to 90s. per lb. Ceylon leaf, 12s. 6d. per lb., spot.

CITRONELLA.—Ceylon is 6s, 8d, per lb. on the spot and 6s, 4d., c.i.f.; Formosan spot is 14s., and forward, 13s, 3d., c.i.f. Java type is not quoted.

CLOVE.—Madagascar leaf is 10s. per lb., duty paid and 8s. 9d., c.i.f., for shipment. Rectified 87-88 per cent., 14s.; distilled bud oil, English, from 35s.; imported, 18s. 6d. to 19s. 6d.

Coriander.—Russian-seed oil is valued at 95s. per lb.

CUBEB. — Spot price for small lots is 50s, per lb.

CUMIN. — Quotations for English-distilled oil are about 110s. per 1b. and imported, 57s. 6d.

DILL. — B.P. English-distilled oil is quoted at 60s, per lb. Imported oils are scarce at 36s, per lb.

FENNEL.—Spanish sweet on the spot is quoted from 12s. per lb. with Russian at 18s. 6d.

GERANIUM. — Bourbon is 95s. per lb. on the spot and Algerian, 76s.

Grapefruit.—Australian cold pressed is 16s. 6d. per lb., spot; Californian, 17s., c.i.f., subject to licence.

Hydnocarpus.—Spot is about 2s. 2d.

JUNIPER BERRY. — Imported oils are quoted from 15s. 6d. per lb., duty paid. English-distilled is now 155s.

LAVANDIN.—Spot is from 15s. per lb. for original drums.

LAVENDER. — Quiet. 38-40 per cent. linalol on the spot is 30s. per lb., in 5-cwt. lots.

LAVENDER SPIKE. — Spanish is offered at 13s. 6d. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is from 35s. to 40s. per lb. as to origin. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LEMONGRASS. — Sellers at 12s. 6d., c.i.f., for October-November; spot is unchanged at 14s.

LIME. — Supplies of West Indian distilled are offered from 35s, per lb. on the spot.

NUTMEG. — English-distilled oil is 37s. 6d. per lb. Imported oil is 28s. per lb., duty paid for drum lots.

ORANGE. — Spot quotations include: Florida at 4s. 6d. per lb.; Californian, 5s. 9d.; Jamaican, 8s. 6d. and West African, 12s. 6d. For shipment, Californian sweet is 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f., subject to licence. West African, 12s., c.i.f. Terpeneless is 210s. per lb., spot.

PATCHOULI.—Penang is 54s., duty paid, and 47s., c.i.f.

Pennyroyal. — Spot is scarce with sellers asking 24s. per lb.

PEPPERMINT. — Arvensis: Chinese is 33s., 6d. per lb. on the spot and 33s., c.i.f. Brazilian, 32s., spot, and 31s., c.i.f. Italian "Mitcham"-type oil is from 70s., spot, and American, 40s. to 47s. 6d.

PETITGRAIN. — Paraguay is quoted for shipment at from 23s, 6d, to 25s, 6d, per lb., c.i.f., and 25s., spot, in cases.

ROSEMARY.—Spanish oil on the spot is from 5s. ld. per lb., duty paid, for drum lots.

RUE. — Spot offers are from 14s. per lb. SAGE. — Spanish is offered at from 8s. 6d. per lb.

SANDALWOOD.—Mysore is 105s. per lb. on the spot. Very scarce. West Indian is 15s. per lb.

Sassafras.—Brazilian in 1-cwt. lots is offered at 8s. per lb.

SPEARMINT. — Offers of U.S. oil for shipment are about 35s. 6d. per lb., c.i.f., with spot at 36s. Dutch quoted at 34s., duty paid, and Chinese at 30s.

UNITED STATES REPORT

NEW YORK, OCTOBER 11: Among INDUSTRIAL CHEMICALS, CARBON TETRA-CHLORIDE advanced a half-cent per lb. to 11½ cents, whilst a similar rise increased Trichloroethylene to 1034 cents. Contract prices on natural and synthetic grades of PHENOL were raised one cent per lb. making the 90-92 per cent, grade 163 cents per lb. Brazilian MENTHOL was reduced to \$8.45 per lb. (down 30 cents), while RESERPINE ALKA-LOID was reduced \$2 per gm. to a new price of \$9.00 per gm. in 1-kilo lots. Higher per lb. among CRUDE DRUGS were WITCH HAZEL LEAVES at 25 cents, up two cents. NUTMEG OIL was raised to \$3.35 (up 10 cents), and Turkish GERANIUM OIL to \$9.75 (up 25 cents) a lb. Bois de Rose at \$4.40 was down five cents per lb.

WORLD TRADE

Glycerin Plant for Holland. - The first synthetic glycerin plant to be built outside the United States will be erected at Pernis refinery near Rotterdam by the Bataafsche Petroleum Maatschappij BPM. The plant will cost about 25 million guilders and is ex-pected to start operating in 1957. The Shell Development Co. of the U.S. is at present operating a similar factory in California while a second plant is also under construction elsewhere in that country.

Petro-chemical Plant.-Rheinische Olefinwerke G.m.b.H., the first West German plant for large-scale production of chemicals and plastics based on crude oil, has now started operations. Set up jointly by Badische Anilin und Soda Fabrik, of Ludwigshafen, and the German Shell Co., the plant is producing polyethylene by processing refinery gas. The polyethylene is being used as raw mate-Badische Anilin, while ethyl benzole is also being produced. Annual production aimed at is 10,000 tons of polyethylene and 12,000 tons of ethyl benzole.

Mexico-U.S. Sulphur Production.-Production of sulphur in Mexico has been increasing rapidly lately and the country, which some time ago had to import the bulk of her sulphur requirements, is developing into an important exporter of that commodity. In the first half of 1955 40,000 tons of sulphur were shipped abroad and it is expected that exports will increase substantially in the near future. Two companies, the Compania Azufrera Mexicana SA and the Gulf Sulphur Company de Mexico SA, are expected to produce about 500,000 tons annually by the end of this year by exploiting saline domes near the port of Coatzacoaleos. A third company, Compania de Azufre Vera Cruz SA near San Cristobal is expected to produce at an annual rate of 300,000 tons also by the end of 1955. Additional sources within Mexico include a sulphur recovery plant in the Poza Rica refinery with a yearly output of 40,000 tons and a small deposit in San Luis Potosi producing 12,000 tons. — The Humble Oil and Refining Company of the United States has announced the discovery of a major sulphur deposit six miles off Grand Isle on the Louisi-The deposit was said to ana coast. be over 200 feet thick and extending over a few hundred acres and might hold 30 or 40 million tons of sulphur. The Humble Co. are considering building a plant or co-operating with other sulphur producers to mine the mineral.—The United States sulphur industry produced 487,633 long tons of native sulphur and 33,900 tons of recovered sulphur in July. This compared with 425,050 and 32,500 tons respectively in June, and 471,594 and 31,900 tons in July 1954. tons respectively in June, and 471,594 and 31,900 tons in July 1954. Producers' stocks of native sulphur at the end of July amounted to 2,886,573 long tons, compared with 2,875,387 a month earlier and 3,258,821 at end-July 1954. No details of stocks of recovered sulphur are available.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 28

For pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; medical and surgical plasters; materials prepared for bandaging; and material for stopping teeth; dental wax; disinfectants; and preparations for killing weeds and destroying vernin (5)
GLIX, 742,483, by London Co-operative

Chemists, Ltd., London, E.15.

For surgical dressings (5)

KAPUPLAST, 743,027, by Kaputine, Ltd., also trading as Alex Parsons, Oldham, Lancs.

For sterilising preparations, disinfectants and antiseptics, all containing amines or derivatives

MICOLAMIDE, MICOLAMINE, 743,789-90, by Milton Antiseptic, Ltd., London, N.7.

For pharmaceutical preparations and substances (5)

KELMAR, 743,877, by James Joseph Kelly, Tyrone, Northern Ireland.

For electric shaving instruments and parts (8) UNIC, 742,699, by Rosse & Affolter, Jura Bernois Switzerland

From the "Trade Marks Journal," October 5

For synthetic resin plastics in the form of gran-

wles or powders (1)

ZYTEL, 731,535, by E. I. Du Pont De Nemours & Co., Wilmington, Delaware. U.S.A.

For fire-extinguishing foam-forming chemicals and compositions (1)

AER-O-FOAM, 733,372, by National Foam System, Inc., Pennsylvania, U.S.A.

For chemical products for use in the manufac ture of perfumes, perfumery products, soaps and cosmetics (1)

GRISAMBROL, 742,188, by Firmenich & Co., successeurs de la Société Anonyme, M. Naef & Cie., Geneva, Switzerland,

For chemical substances (not being adhesives) for use in the plastics industry (1)

PICTOR, 742,252, by Shell Chemicals, Ltd., London, E.C.3

For vinyl resins for use in industry (1)

TUCANA, 742,253, by Shell Chemicals, Ltd., London, E.C.3.

For chemical substances used for agricultural and horticultural purposes (1)
MEMA, 742,882, by Plant Protection, Ltd.,

Yalding, Kent.

For chemical products for use in detecting

cracks and flaws (1)
CERMOR, 743,104, by Manchester Oil Refinery (Holdings), Ltd., Manchester,

For catalysts (1)

REXFORMING, 743,481, by Universal Oil Products Co., Illinois, U.S.A.

For preparations and substances for laundry

PYROCIDE, 740,024, by Borax Consolidated, Ltd., London, E.C.4.

For non-medicated toilet preparations (3) FRISCOLON, 740,506, by Ferdinand Mulhens FRISCOLON, 740,506, by Ferdinand Mulhens trading as Eau De Cologne & Parfumerie-Fabrik Glockengasse No. 4711 Gegenüber der Pferdepost von Ferd, Mulhens, Cologne, Germany. LIMELIGHT, 741,304, by Tokalon, Ltd., Reading, Berks. HI-FI, 741,961, by Max Factor & Co., California, U.S.A. DOVO, 742,404, by Dovo Laboratories, Pinner, Middleren Middlesex.

For detergents (not for use in industrial processes or in the course of manufacture) (3) EPOC, 744,461, by Whitcroft Chemicals, Ltd., London, N.W.5.

For preparations for cleaning carpets (3) Device with wording GENIE THE MAGIC CLEANSER, 742,500, by Codella, Ltd., Aberdeen, Scotland,

For starch in tablet form for laundry purposes (3) Device of a penguin with the wording COL-MAN'S TABLET STARCH, 743,568, by Reckitt & Colman, Ltd., Hull, Yorks.

For powders and tablets all for treating headaches (5)

KURRA, 731,820, by Crowden Products (Pty.), Ltd., Johannesburg, South Africa.

For all goods (5)

KALLOSTANO, 736,060, by Roche Products, Ltd., Welwyn Garden City, Herts. AMMENO-STRIL, PREMENOSTRIL, 740,997–98, by Glaxo Laboratories, Ltd., Greenford, Middlesex. SCHISTOMIDE, 744,084, by May & Baker, Ltd., Dagenham, Essex.

For fungicides; insecticides, disinfectants for agricultural and horticultural purposes, weed-killing preparations, pesticides for agricultural and horticultural purposes and compounds for

sterilising the soil (5)

Device with the word VIVUS, 736,594, by Vivus Products, Ltd., Brackley, Northants.

For antibiotic hormone preparations being pharmaceutical preparations (5)

TERRA-CORTRIL, 737,696, by Chas. Pfizer & Co., Inc., Brooklyn, U.S.A.

For vitamins and preparations of vitamins, all for use in making pharmaceutical drinks (5)

BLINK-VIT, 739,945, by Edward James Stone, London, W.C.1.

For preparations of mineral substances for use as nutritional aids by addition to animal foods (5)

Device with the word ROSETTE, 741,582, by Albright & Wilson (Ireland), Ltd., Dublin, Ireland.

For pharmaceutical preparations for application as surgical dressings (5)

PLASCOTE, 741,771, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

PRINT AND PUBLICITY

Price Lists

DUNCAN, FLOCKHART & Co., LTD., 104 Holyrood Road, Edinburgh, 8: Duncan specialities, September 1955. Pp. 6. Available on application.

EDWARD GURR, LTD., 42 Upper Richmond Road, East Sheen, London, S.W.14: Michrome Biological Stains and Reagents, August 1955, Pp. 54. Biological Instruments, Apparatus, and Glassware (folder).

DAK, LTD., Kingsway, London, W.C.2 'Kodak Ready-to-Mix Chemicals.'' Pp. 6. KODAK, LTD., Kingsway,

MARCEL FRANCK & Co. (LONDON), LTD., Adriant Works, 9 Park Hill, London, S.W.4: Sprays, September 1955. Pp. 4.

M. & R. NORTON, LTD., 9 Park Hill, London, S.W.4: Novelty soaps, September 1955, Pp. 4.

NIPA LABORATORIES, LTD., Treforest Industrial Estate, Glams: "Preservatives, Antiseptics, Antioxidants, and Pure Fine Chemicals." Pp. 8.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: Cumulative amendment to 1955 price list of May & Baker products. Pp. 6.

THERMEGA, LTD., 51 Victoria Street, London, S.W.1: Descriptive booklet and price list, 1955. Pp. 16.

VITAMINS, LTD., Upper Mall, London, W.6: Trade, with notes and therapeutic index. Pp. 24.

Display Material

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1: Showcard for Radio-Malt.

CHILTON ELECTRIC PRODUCTS, LTD., Hungerford, Berks: Kub electric dry shaver. Showcard.

PHARMAX, LTD., Gravel Hill, Bexleyheath, Kent: Ralgex show material available on request,

Booklets and Leaflets

LEDERLE LABORATORIES DIVISION (CYANAMID PRODUCTS, LTD.), Bush House, London, W.C.2: "The Practical Importance of the Vitamins," Pp. 24.

PICOT, LTD., Latymer Court, London, W.6: Parfuins Picot." Pp. 8.

Advertising Campaigns

Ann Graham Sales, 39 Great Marlborough Street, London, W.1: Vibrette massage unit. In Daily Mirror.

Commercial Television

THE following products are being advertised on commercial television (London station) on the days stated:--

SUNDAY, October 16: Max Factor beauty preparations; Ribena.

Monday, October 17: Carter's Little Liver Pills; Savlon antiseptic cream.

TUESDAY, October 18: Toni cosmetics; Knight's Castile soap; Brylcreem; Beecham's powders.

THURSDAY, October 20: Prom home permanent; Amami wave set; Brylcreem.

FRIDAY, October 21: Beecham's pills,

Saturday, October 22: Ribena; Alka-Seltzer; Knight's Castile soap; Lloyd's adrenaline cream.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, October 16

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, St. John's Church, Boscombe, at 3 p.m. St. Luke's Day service.

PORTS MOUTH BRANCH, PHARMACEUTICAL SOCIETY, cathedral church of St. Thomas of Canterbury, High Street, Portsmouth, at 11 a.m. St. Luke's Day service.

Monday, October 17

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIA-Tion, Central hotel, Birkenhead, at 8 p.m. Mr. H. Burlinson, F.P.S., on "What's in a Tablet?" Tablet ?

ENFIELD CHEMISTS' ASSOCIATION, Eastern Gas Board demonstration theatre, Sydney Road, Enfield, at 7.30 p.m. Films presented by Imperial Chemical (Pharmaceuticals), Ltd.

KENT SUBSECTION, ROYAL INSTITUTE OF CHEMIS-TRY and LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, North-west Kent College of Technology, Miskin Road, Dartford, at 7 p.m. Dr, J. Haslam, F.R.I.C., on "The Importance of Analytical Chemistry in Industry,'

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Reform club, Victoria Street, Nottingham, at 7.30 p.m. Dr. D, C. Garratt on "The Public

READING BRANCH, PHARMACEUTICAL SOCIETY, Reading Technical College, at 7.30 p.m. Professor B. C. J. G. Knight, D.Sc., on "Pasteur and Microbiology."

WEST MIDLANDS BRANCH, INSTITUTE OF PACKAG-ING, Imperial hotel, Birmingham, at 6,45 p.m. "The Use of Metal in Packaging" (talk and film show).

Tuesday, October 18

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Royal Bath Hospital, Harrogate, at 7.30 p.m. Visit, followed by an address by Dr. T. G. Reah (consultant physician to the General and Royal Bath Hospitals, Harrogate) on the work done at the hospital in the treatment of rheumatoid discares.

HERTFORD BRANCH, PHARMACEUTICAL SOLIETY, Maypole hotel, Hertford, at 8 p.m. Miss M. A. Burr (a member of the Society's Council) on "A Survey of Pharmacy Today."

NORTH LONDON PHARMACEUTICAL ASSOCIATION and NORTH METROPOLITAN BRANCH, PHARMACEUTICAL Society, Beale's restaurant, Holloway Road, London, N.7, at 7.45 p.m. Mr. J. C. Bloomfield (a member of the Society's Council) on "Current Pharmaceutical Topics."

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, Feathers hotel, The Broadway, Eal-ing, London, W.5, at 8 p.m. Cosmetic demonstration and lecture (Goya, Ltd.).

WEST MIDLANDS BRANCH, INSTITUTE OF PACKAG-INO, Metal Box Co., Worcester. Visit.

Wednesday, October 19

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Bush House restaurant, Aldwych, London, W.C.2, at 6.30 p.m. Annual dinner and dance. Ticket 30s. from Miss H. I. Trapp, 91 Woodlands, North Harrow,

LIVERPOOL CHEMISTS' GOLFING SOCIETY, Exchange hotel, Liverpool, at 7 p.m. Annual dinner and

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-TRY, King's College, Strand, London, W.C.2, at 6 p.m. Professor H. C. Lonquet-Higgins, M.A., D.Phil., on "Some Recent Advances in Physical Organic Chemistry."

REIGATE AND REDHILL BRANCH, PHARMACEUTICAL Society, Red Lion hotel, Coulsdon, at 6.30 p.m. Annual dinner and dance,

THAMES VALLEY PHARMACISTS' ASSOCIATION, Griffin hotel, Market Place, Kingston-on-Thames, at 7 p.m. Supper dance.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Cobb's restaurant, Sydenham, London, S.E.26, at 6,30 p.m Annual dinner and dance, Ticket, 25s., from Mr. W. E. Walton, 184 High Street, Penge, London, S.E.20.

Thursday, October 20

BOURNEMOUTH BRANCH, NATIONAL PHARMACEUTI-CAL UNION, Linden Hall Hydro, Bournemouth, at 7.30 p.m. Mr. W. Talvan Rees, M.P.S. (chairman of the N.P.U. executive) on "Pharmacy and its Problems."

CHELTENHAM BRANCH, PHARMACEUTICAL SOCIETY, Gloucestershire Dairy café, Promenade, Chel-tenham, at 7,30 p.m. Mr. S. W. Stroud (re-search department, Boots Pure Drug Co., Ltd.), on "Research as Applied to the Pharmaceutical Industry."

CHEMICAL SOCIETY, lecture theatre, Institution of Civil Engineers, Great George Street, London, S.W.1, at 7.30 p.m. Professor M. Calvin, Ph.D. (University of California), giving the centenary lecture, on "The Photosynthetic Carbon lecture, on Cycle."

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY,
The Wellcome Club, High Street, Dartford,

10-mil vial

100 microgm, per mil 5 x 1 mil

1,000 microgm, per mil 5 x 1 mil

Distivit B12

at 8 p.m. Dinner and social evening. Ticket 10s. 6d., from Mr. G. H. Sheard, 267 Princes Road, Dartford,

DUNDEE AND EASTERN SCOTTISH BRANCH, PHAR-MACEUTICAL SOCIETY, Mather hotel, Dundee, at 7.30 p.m. Mr. J. D. Boyd (curator of the Dundee Museum), on "The Compounding and Dispensing of a Museum."

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH. PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. J. H. Taylor, M.B., Ch.B., D.P.H., M.R.C.P.(E.), on "Physiology and Recreation."

WESTMORLAND BRANCH, PHARMACEUTICAL SOCIETY, Bindloss room, Town Hall, Kendal, at 3 p.m., Mr. T. Heseltine (a former president of the Society) on "Pharmacy as 1 see It."

YORKSHIRE BRANCH, INSTITUTE OF PACKAGING, Great Northern hotel, Leeds, at 7 p.m, Films "Logical Labelling" and "We've Got It Taped," followed by talks by Messrs, G. J. Robinson and C. Cameron (Samuel Jones & Co., Ltd.).

Friday, October 21

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Whipps Cross Hospital, Leytonstone, at 8.30 p.m. Professor A. D. Macdonald, M.A., M.Sc., M.D., on "Drugs, Moods and Habits."

HULL CHEMISTS' ASSOCIATION, Regal room, Hull, at 8 p.m. Mr. C. C. Stevens, LL.B., M.P.S. (Imperial Chemical (Pharmaceuticals), Ltd.), on "Forensic Pharmacy."

Advance Information

GLASGOW AND SOUTH-WESTERN BRANCH, PHARMACEUTICAL SOCIETY, are holding their annual dinner and dance at the Grosvenor hotel, Gordon Street, Glasgow, on October 25.

C. & D. WEEKLY LIST OF PRICES

A-Advanced; R-Reduced; I.R.P.-Inclusive Retail Price; *-Tax 25 per cent.; ‡-Tax 50 per cent.;

,		†T	ax 75%.				
BRITISH SCHERING, LTD.	(from	October 10)	SCOTT & TURNER, LTD, (from October 3)				
Cortiron ampoules	Totale	TDD	Andrews liver salt* 4 oz. 1 9 A 8 oz. 2 9 A				
4 x 5 mgm.	Each 4 3	I.R.P. 5 8 R	8 oz. 2 9 A				
25 x 5 mgm.	21 3	28 4 R	NEW PROPERTY AND PACES				
Ethidol tablets	2. 0		NEW PRODUCTS AND PACKS				
100 x 0.01 mgm.	1 6	2 0 R	COTY (ENGLAND), LTD.				
100 x 0.05 mgm.	2 0	2 8 R	Twistick solid cologne† 7 6				
100 x 0·1 mgm.	2 9	3 8 R	ENIANOS EMD				
100 x 1.0 mgm.	17 9	23 8 R	EVANOL, LTD. Brown hair brightener No. 18†				
Oraluton tablets 100 x 5 mgm,	14 5	19 2 R	1 oz. 14 0 2 7				
100 x 3 mgm.	25 3	33 8 R	2 oz. 24 0 4 4				
100 x 25 mgm.	58 6	78 0 R	Each				
Progynon tablets	50 0	70 0 10	10 oz, 7 0 15 9				
30 x 0·3 mgm.	$\begin{array}{ccc} 2 & 3 \\ 2 & 6 \end{array}$	3 0 R	20 oz. 12 0 27 0				
15 x 1.0 mgm.		3 4 R					
100 x 1⋅0 mgm.	9 6	12 8 R	P. H. GALLOWAY, LTD.				
Progynon B Oleosum			Doz.				
ampoules	35 5	47 2 R	Galloway's pastilles* tin 11 0 1 6				
25 x 5 mgm, 10 c.c.	11 3	47 2 R 15 0 R	ANN GRAHAM SALES				
Proluton ampoules	11 3	13 U K	Vibrette massage unit 59 6				
25 x 5 mgm.	18 3	24 4 R	Violette massage unit.				
25 x 10 mgm.	23 0	30 8 R	Each				
3 x 25 mgm.	6 9	9 0 R	S, MAW, SON & SONS, LTD,				
25 x 25 mgm.	36 9	49 0 R	Thromboral pack 21 4 32 0				
EVANS MEDICAL SUPPLIES, LTD. MOORE MEDICINAL PRODUCTS, LTD.							
EVANS MEDICAL SCITLE	Each	•	Doz.				
Bitrinsic tablets 20	5 6	8 3 A	Noctynol tablets* 12 22 6 2 6				
100	25 4	38 0 A					
Bromevan* 4 fl. oz.	2 6	4 5 A	CHAS, H. PHILLIPS CHEMICAL CO., LTD.				
8 fl. oz.	4 6	7 11 A	Doz.				
80 fl. oz.	31 6	A 5 7 A	Califets* 12 6 1 8				
Ephrelix* 4 fl. oz.	3 2 24 6	A A					
Ephretuss* 4 fl. oz.	3 0	A 5 3 A	P.A.T.A. PROTECTED LIST				
40 fl. oz.		A					
E.D.P. (Evans dermal		**	(Alterations notified this week by the Proprietary Articles Trade Association.)				
powder)* small	1 5	2 6 A	, , , , , , , , , , , , , , , , , , , ,				
medium	4 6	7 10 A	MODERN HEALTH PRODUCTS, LTD, (from				
1 lb.	33 0	A	October 1) Vegetex tablets* 80 47 10 6 6 A				
Bitevan			Vegetex tablets* 80 47 10 6 6 A				
100 microgm, per mil	2 21	4 4 R	Educol tablets* 80 47 10 6 6 A				
6 x 1 mil	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 4 R 5 10 R	Vecon tonic drink 27 0 3 0 A				
10-mil vial	4 4	3 10 K	67 6 7 6 A				
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3 6 1 11111	22 12	21 2 D	ADDITIONS TO THE PROTECTED LIST				

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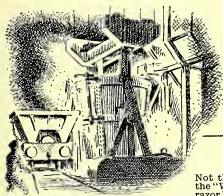
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ADDITIONS TO THE PROTECTED LIST CHAS, H, PHILLIPS CHEMICAL CO., LTD. Mil-Par (flavoured)* 22 8 3 0 37 10 5 0 SCOTT & BOWNE, LTD. (new size)
Portex plastic skin* 15 2 2 0





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Not the "United" or the "Wednesday", but razor blades, of course too. Blades for the sweeping clean of cheeks and chins... But Overalls from Gardiner's—protective wear for the keeping clean of clothes and the keeping-up of personal appearances. Surface wear to save the surface of the underneaths! Please write for our comprehensive catalogue and price list.

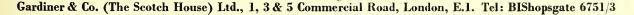
Illustrated left. Style C. 66. Ladies'
Reyon Overalls in colours: Mid
and Light Green, Grey, Navy,
Beige, Light and Mid Blue, Cream,
Fink, Maroon, Fuchsia Pink and
White. SW 29/6, W & WX 30/4.
05 32/11.

Mustrated right. Style C.67. Ladies' Poplin Overalls with wide overlapping skirt. Colours: Pink, Lavender Blue, Light Green, Cerise, Heliotrope and White. SW 31|-, W&W X 33|1, OS 34|11. Post orders 1|3d. extra.

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The original antipyocyanea compound with its developing use as a special preservative and antiseptic for penicillin creams, anti-burn ointments and pharmaceutical-medicinal preparations.

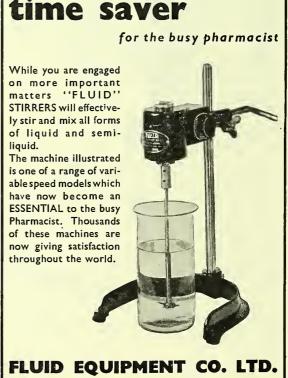
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Sole Distributors for the United Kingdom:

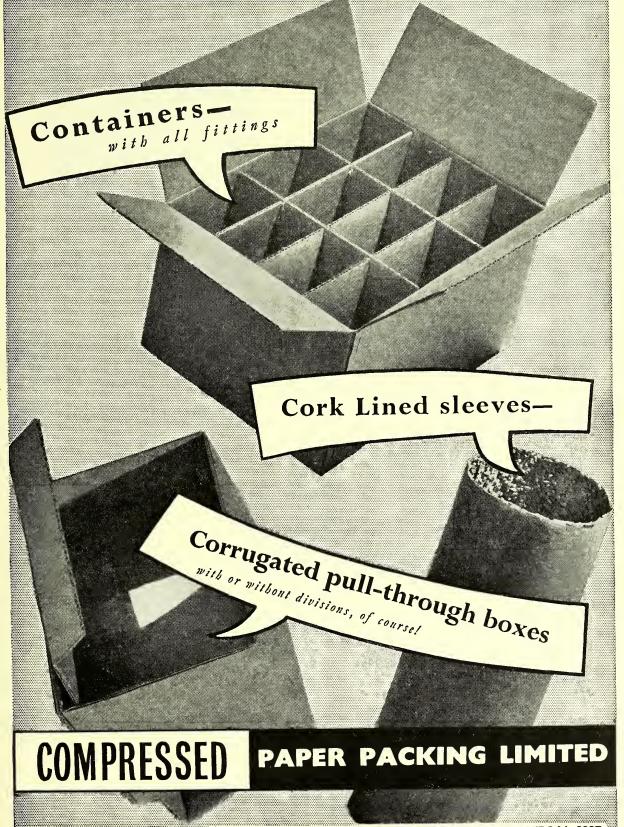
P. SAMUELSON & CO., ROMAN WALL HOUSE, I CRUTCHED FRIARS, E.C.3. Telephone: ROYAL 2117/8



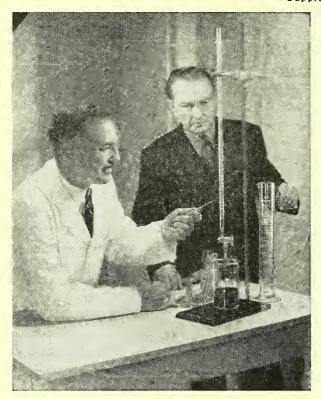


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'Our work is rather special, so we always use Works Class A standard, but I am sure we'd be quite safe in using Works Class B at the lower cost. Of course we keep NPL Class A for all our research work.'

'What about breakages?'

'Very few, Sir! You see, 'PYREX' can be made so much more sturdy and robust because of its low coefficient of expansion (actually 3.2x10⁻⁶) -and we never have breakage through heat, nor any sign of chemical attack.

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This is a very old Trade Mark of ours and a product for many years in use by the Medical Profession and all those requiring a First Class Superfine Cotton Wool. Now packed in attractive white Cartons in various sizes and would be readily acceptable to your more exacting customers.

> Of course this is just one of our Manufactures. We also supply in Cartons all BPC Dressings in Cotton Wool, Lint and Gauze.

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The days of witch doctors and charms are now lost in the back-ground of modern civilisation.

But the modern "medicine man" must still charm his customers with an array of goods at one time never dreamt of by most of us,

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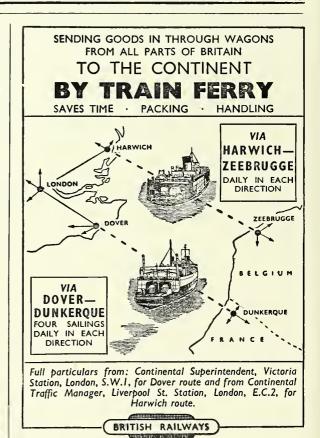
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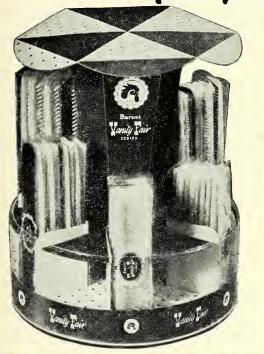
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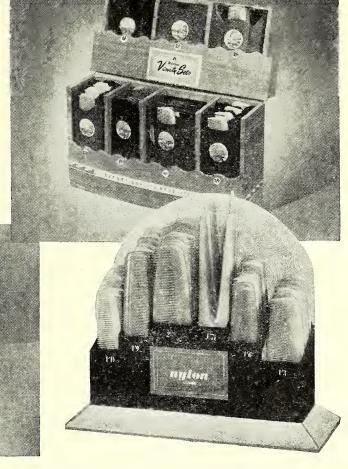
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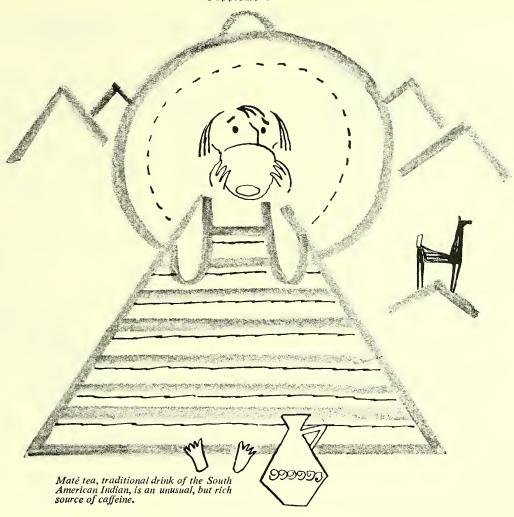
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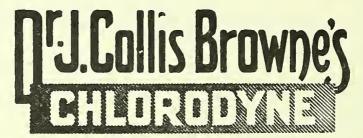
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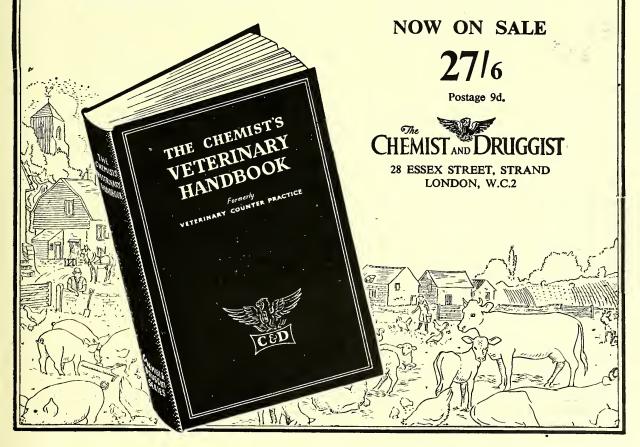


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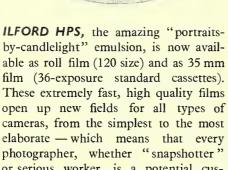
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NEW SHOP TO LET

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of five on the Council's housing estate at
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Superintendent immediately. C 9269

NETHERNE HOSPITAL,
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Victoria Chambers, Wood Street, Wakefield.
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C 9264

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COMMITTEE
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has vacancy for registered pharmacist, Salary 5500 rising to £725 plus London Weighting according to previous experience and service. Dining room facilities available. Write Secretary

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Applications stating age, qualifications and experience with names of two referees to Chief Pharmacist. C 9215

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A. V. OAKTON, Group Secretary. C 9238

SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

BANSTEAD, SURREY, Lady assistant required for counter, display, stock, etc. Experience essential, Staff of four. Most agencies, No dispensing. Please write, with usual details, age, experience, salary required to Mr. Woollatt, 30 High Street, Banstead, or phone Burgh Heath 720 (Burgh Heath 2024 after 7.30 or Sunday).

Sunday).

Sunday).

Sunday).

Dispensing assistant, unqualified, required for good-class business. Knowledge photographics an advantage, Staff of four, Small flat available, three rooms, bathroom, small garden, Rent free, Please write, with usual details, experience, age, salary required, etc., availability for interview, to Mr. Woollatt, 30 High Street, Banstead, or phone Burgh Heath 720 (Burgh Heath 2024 after 7,30 or Sunday).

C 2965

RIKER

Owing to territorial reorganisation in the London area, a vacancy occurs for a representative in each of the following territories :-

- 1. Egger.
- 2. Sonth West London.
- 3. Middlesex.

These posts provide the opportunity of Joining a rapidly expanding Pharmaceutical Company marketing the products of two American Research organisations. Applicants should preferably be pharmacists and no previous experience in medical representation is necessary as full training will be given.

A Company car will be provided and there is a Company pension scheme in operation.

Apply in writing to the Sales Department, Riker Laboratories, Ltd., Morley Street, Loughborough, marking the envelope "Representative." C 9267

C. L. BENCARD, LTD.

have a vacancy for a medical representative of exceptional ability and first-rate experience to operate in the County of Essex.

This progressive post is backed by vigorous and effective ethical sales promotion from within the company, is a key position and carries a salary in proportion to the importance of the appointment.

A car and full expenses are provided and there are bonus and pension schemes in operation. Apply, giving full details of experience to the Sales Manager, C. L. Bencard, Ltd., Park Royal, London, N.W.10. C 9292

Situations Vacant—Continued

BAYSWATER, Capable lady assistant required with dispensing experience. Apply John Harley, Ltd., 66 Goldhawk Road, W.12, C 2971 CHEMIST COUNTER ASSISTANT required, up to £8 per week, experienced drugs and cosmetic departments, Modern shop, Apply Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1. Phone: Terminus 9494. C 9284 DISPENSERS, London Concenting Chemists. DISPENSERS, London Co-operative Chemists, Ltd., have vacancies for experienced dispensing staff in various London suburbs. The positions

staff in various London suburbs. The positions offer to either sex employment in modern dispensaries at a basic rate, plus monthly bonus and payment for rota duties. Applications in first instance to Superintendent Chemist, Grange Road, Leyton, E.10, C 3008

DONCASTER CO-OPERATIVE CHEMISTS, LID., require the services of Pharmacists (male or female) as branch managers. Living accommodation with one post, Minimum rate £780 per annum, 44-hour week, Applications and usual particulars to Superintendent Chemist, St. Sepulchre Gate, Doncaster. C 199

EXCELLENT PROSPECTS in attractive Leicestershire market iown for pharmacist with energy

EXCELLENT PROSPECTS in attractive Leicestershire market iown for pharmacist with energy and ability, to manage typical family business. Free accommodation comprises three bedrooms, lounge, breakfast 100m, kitchen, inside bath and toilet, with hot and cold water; outside toilet, etc. Remuneration commencing at £800 per annum. Please send full details of personal abilities and experience (with photograph if possible) to Messrs, Straw & Pearce, Solicitors, 18 Rectory Place, Loughborough, Leicestershire, C 2989

GLASGOW. Branch Manager or Manageress wanted by S.C.W.S., Ltd., Retail Drug Department for branch at 369 Catheart Road, Glasgow, Modern well-equipped pharmacy with adequate supporting staff. Good salary will be paid with entry to superannuation scheme after initial period of service. Applications stating age, experience and when available for interview to: Mr. G. M. Archibald, Technical Supervisor, S.C.W.S., Ltd., Detail Drug Department, 187 Bogmoor Road, Glasgow, S.W.I. C. 3002

ILFORD. Branch Manager Pharmacist required ILFORD, Branch Manager Pharmacist required for pleasant suburban branch, Busy shop and good dispensing connection, Excellent opportunity for ambitious man to carn substantial salary and bonus, Good supporting staff and modern equipped dispensary, Newly built flat available, central heated, etc. Permanency with superannuation benefits, Apply, stating details of previous experience and stating when available for interview, to Box C 3005.

[LONDON. W.J. An experienced Pharmacist

LONDON, W.I. An experienced Pharmacist is required to manage a substantial business with good supporting staff, Accommodation can be provided if desired in North Kensington. Applications in first instance to Box C 3006.

MANCHESTER, Experienced unqualified male assistant, with initiative, required for permanent progressive position in well-appointed pharmacy, Hours 9-6, Saturday half-day, State usual details of age, experience and salary required. Apply Box C 2993.

required. Apply Box C 2993.

NORTHERN IRELAND pharmacists are invited to apply for the posts of managers in ultra-modern, well-appointed pharmacies in London. Unusual opportunities, good salary and permanency offered. Apply Superintendent, Kendale Dispensing Chemists, 51 Exmouth Market, E.C.1, Phone: Terminus 5216, C 9285

NORTH FINCHLEY, Capable lady assistant required with good dispensing experience, Apply Mr. C. J. H. Booth, M.P.S., Manager, John Harley, Ltd., 321 Ballards Lane, N.12. (Telephone: Hillside 0255.)

DISPENSER/RECEPTIONIST firm of doctors, Northamptonshire, Please state age, experience and salary required, Box C 2985.

NORTH LONDON, Unqualified lady or gen-NORTH LONDON, Unqualified lady or gentleman required mainly for dispensing. Permanent and progressive position, Salary according to age and experience. Three weeks' holiday a year, Apply to Mr. Sorkin, 4 The Broadway, Mill Hill, N.W.7., or telephone Mill Hill 1455 for an appointment. C 9259 PART-TIME DISPENSER WANTED for Monday, Wednesday and Friday afternoons and Saturday mornings. Apply in writing giving details of experience to Secretary, Finsbury Dispensary, Friend Street, Goswell Road, E.C.I. C 3001

S.E. ESSEX, Superintendent Pharmacist for better-class business, Small dispensing, light duties, adequate staff. Pleasant surroundings. Salary and bonus plus accommodation, s/c flat. Box C 2918

BOX C 2918.

SUPERINTENDENT PHARMACIST required for south coast, Counter and dispensing, £1,000 p.a, and bonus will be paid to young and conscientious person. This is an excellent position for a gentleman with initiative. Write full particulars, Box C 2990.

SUPERINTENDENT PHARMACIST

SUPERINTENDENT PHARMACIST
Permanent Position
N.U.C.O. Scale of Wages and Conditions
Annual Sales: £28,000
Applications to be made by letter giving
the following particulars:—
Full name, address, age, experience, and
present place of employment.
Letters to be addressed to the Secretary,
West Stanley Co-operative Society, Ltd.
C 22

UNQUALIFIED DISPENSING ASSISTANT required for busy pharmacy in the Leyton area. Wages according to experience. Apply Mr. Scott, 565 Lea Bridge Road, Leyton, E.10, C. 2946

UNQUALIFIED DISPENSING ASSISTANT required for busy pharmacy near Romford.
Unfurnished accommodation will probably be made available to suitable applicant during 1956. Apply: Mr. J. W. Frogg, M.P.S., 1148 Green Lane, Becontree Heath, Essex. Phone: Dominion 1756. Green Lane, Becontree Heath, Essex. Phone: Cominion 1756.
UNQUALIFIED HELP REQUIRED in pleasant new business, Half-day Wednesday, Some free Saturdays, Every consideration to responsible person, Apply R. A. Veitch, Merton Park Pharmacy, 55 Martin Way, Morden, Surrey, Tel.: Cherry Wood 3146.

C 3011
WELL-KNOWN FIRM of chemists' valuers have vacancy for stocktaker on permanent staff; mainly London area; previous stocktaking experience not essential; good opportunity for keen and intelligent applicant, Please state brief details of career to date and commencing salary required, All replies treated in strict confidence, Box C 9300.

WEMBLEY, Pharmacist required to manage well-established branch in pleasant suburban area, Good salary and monthly bonus, plus payment for all rota duties. Adequate supporting staff, Family type business with good dis-

payment for all rota duties, Adequate support-ing staff, Family type business with good dis-pensing connection, Flat accommodation avail-able if required, Apply, giving details of pre-vious experience and stating when available for interview to Box C 3004.

LOCUMS WANTED

LOCUM PHARMACISTS required for London and suburban areas, Permanency at conclusion of tour if desired. Salary and expenses basis. Apply to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10.

RETAIL (OVERSEAS)

PHARMACISTS required by English company PHARMACISTS required by English company for service in British West Africa, Progressive salary, Free furnished accommodation, Free medical services, Contributory pension fund with generous pension at age 55, Tours of about eighteen months with leave on full pay, Initial kit allowance, First-class passages by air or steamer provided, Low income tax rates. Reply giving full particulars to Box C 2991.

WHOLESALE

(A) GLASGOW/EDINBURGH AREA; (b) Yorkshire; and (c) Newcastle area, Representatives required for above areas by well-known company marketing several established and nationally advertised products, Only first-class men resident in or near main centre of area and with good chemist and store connections would be considered, Company car provided, Remuneration salary, expenses and commission, Send fullest details in confidence, Box C 9279.

ALLIED LABORATORIES, LIMITED Applications are invited for the position of medical representative for the territory of medical representative for the territory comprising South Yorkshire, A good knowledge of pharmacy is essential and the applicant should live on and know the territory well. A pharmaceutical qualification and experience in medical representation is desirable but not necessary. Applications will be treated in strict confidence and should be addressed to the Sales Manager, giving details of experience, etc., 140 Park Lane, London, W.1. C 9190

Manager, giving details of experience, etc., 140 Park Lane, London, W.1. C 9190

AN EXPANDING ethical and pharmaceutical organisation requires the services of a pharmacist or other suitably qualified person for an interesting post in the sales department. Prospects are attractive since the person selected would be responsible for the organisation and development of the Company's medical information activities, There is a company pension scheme in operation and a 5-day week. Apply with full particulars to Box C 9082. AN EXPERIENCED REPRESENTATIVE required for Potteries and majority Cheshire by a well-known company selling nationally to chemists and good grocers products supported by national advertising. Substantial basic salary, bonus, Non-contributory pension scheme, Car allowance. Full details to Box C 9295.

AN INTERNATIONALLY KNOWN pharmaceutical house requires the services of a keen young man in the 21-25 age group, who wishes to follow a selling career calling on chemists. The successful applicant will be completely mobile, possess a current driving licence and be based on or near Manchester, as following a training period he will be required to work as a relief representative in Northern England and Scotland. Salary, luncheon allowance and full expenses will be paid and a car provided. After a qualifying period participation in the company's non-contributory pension scheme is automatic. Full details of education and past experience must be provided which will be treated in strict confidence. Box C 9299.

ETHCON SUTURE LABORATORIES, LTD., has a vacancy for a young graduate pharmacist. Initially the person appointed will train in control and development work. There are excellent prospects for the right man, Apply to Technical Director, Bankhead Avenue, Edinburgh, 11.

OLD-ESTABLISHED Manufacturing Chemists require young man for compounding toilet and

burgh, 11.

OLD-ESTABLISHED Manufacturing Chemists require young man for compounding toilet and pharmaceutical products. Write stating age, experience and salary required to Box C 2982.

REPRESENTATIVE

for prominent and leading manufacturing and wholesale chemists in veterinary field. Calling on qualified veterinary profession only. To take over sound connection in Southern and Western Counties, with good prospects of further development. (Experienced lady would also be considered.) Car provided, full expenses. Give fullest personal details, including age and experience, salary, etc., in confidence. Box C 9296.

U.K. DISTRIBUTOR REQUIRED

Well-known manufacturer is prepared to negotiate with Marketing Organisation dealing with chemists for the sole distribution of his product throughout the United Kingdom.

The product is a first-class branded line with a high selling potential, the profit margin is high, there are no manufacturing difficulties and the existing packaging arrangements are very sound. Existing accounts would be handed over. Write Box C 9288.

Situations Vacant—Continued

AN INTERNATIONALLY KNOWN pharmaceutical house requires a first-class man for their representative staff. The position is a good one with scope for a hard worker, Salary, luncheon allowance and full expenses will be paid and a car provided. After a qualifying period participation in the company's noncontributory pension scheme is automatic. The man chosen will be keen, ambitious, and in the 25-35 age group with some selling experience and in possession of a current driving licence. The successful applicant will be required to work as area representative on the very important territory of Warwickshire and Lelcestershire, preferably resident in the Birmingham area. Full details of education and past experience must be provided which will be treated in strict confidence. Box C 9294. AN INTERNATIONALLY KNOWN pharma-9294

DUE TO A POLICY OF EXPANSION a company of international repute, the leader in its field, marketing nationally advertised specialities will shortly be appointing additional representatives to call on retail and wholesale chemists in all areas of the United Kingdom and Northern Ireland, The position will be permanent and pensionable. Remuneration is by salary and commission and is above average. Full expenses with car provided, Applicants, who must be between the ages of 25/40 and prepared to reside in the area appointed, should forward full details of past experience, which will be treated in strictest confidence, to PSM, Box CD, 883, L.P.E., 55 St, Martin's Lane, W.C.2.

EVANS MEDICAL SUPPLIES, LTD.

Galenical Manufacturing
Pharmacist required for supervision of
Galenical Manufacturing Department. Previous experience an advantage but not
essential. Superannuation scheme and 5-day
week in operation, Apply in writing giving
details of age, qualifications and experience
to Production Director. Evans Medical
Supplies Ltd. Speker Liverpool 19 to Production Director, Evans Medica Supplies, Ltd., Speke, Liverpool, 19. C 9

EXCEPTIONAL OPPORTUNITY with Provincial wholesalers for experienced and energetic person to take position of manager/manageress and buyer, perfumery and toilet requisites department. Replies should state age, experience, etc. Box C 2999.

EXPORT: Assistant Sales Manager required by managerizers producing well-setablished.

by manufacturers producing well-established brand of baby requisites, selling to wholesale dealers, chiefly abroad, Applicants must not be over 45 and should be capable, experienced correspondents of good education, Salary £1,500/£2,500 according to ability, Box C 2998, IMPERIAL CHEMICAL (PHARMACEUTI-CALS), LTD., has a vacancy for a pharmacist as senior assistant to the works analyst at its Regent Factory, Linlithgow, The duties include the testing of formulated products, Some knowledge of bacteriological testing would be an advantage, although not essential, Applications with full particulars should be addressed to the Staff Manager (R.W.), Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester, 29287 manufacturers producing well-established cal (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester.
MEDICAL REPRESENTATIVE required by London manufacturing chemists. Applications are invited from men qualified or unqualified in pharmacy, between the ages of 25 and 40. Previous experience not essential but good pharmacy background and knowledge of medical nomenclature is necessary. The vacancy is for the territory covered by the principal cities and towns of Scotland from Glasgow and Edinburgh to Aberdeen. Applicants should state age and experience and give an estimate of the falary required. Box C 215.

JOSEPH BROOKS & CO., LTD., manufacturing chemists and wholesale druggists, require a man with experience of the pharmaceutical or chemical trade, as a representative in the greater Manchester area. Applications to the above company at 17 Robert Street, Manchester, 3. age 25-35, for South Yorks, including Shef-field; and South-west England covering Corn-wall, Devon, Dorset and Somerset, The work involves the discussion of ethical specialities with doctors and pharmacists, The successful candidates will receive a course of training; but a good background of pharmaceutical or medical knowledge and previous experience but a good background of pharmaceutical or medical knowledge and previous experience would be an advantage, Residence on territory and driving licence essential, Remuneration by salary, full expenses, no commission; contributory pension scheme. Apply giving full details in own handwriting to: Medical Representation, Menley & James, Ltd., Coldharbour Lane, S.E.5.

MEDICAL REPRESENTATIVES, Due to business expension Sanday Products. in own handwriting to: Medical Representation, Menley & James, Ltd., Coldharbour Lane, S.E.5.

C9290

MEDICAL REPRESENTATIVES. Due to business expansion Sandoz Products, Ltd., invite applications from young men for the appointment of medical representative in the following areas:—(a) Sheffield area, including part of West Riding of Yorkshire; (b) Cambridgeshire, Huntingdonshire, Norfolk and Suffolk; (c) South Wales, including South Welsh counties and Monmouthshire; (d) Oxfordshire, Berkshire, Buckinghamshire, Northamptonshire and Wiltshire; (e) Glasgow, and North-West Scotland. Attractive salary. Superannuation scheme in operation, Thorough training given. Age not exceeding 32. Applicants should be pharmacists (preferably F.P.S.), Please send full details of age, education, qualifications and experience, with photograph (which will be returned) to Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.I.

OPPORTUNITY FOR REPRESENTATIVES requiring additional lines of outstanding merit. Several areas available including London, Scotland, Yorkshire and Lancashire, The products, comprising well-known non-seasonable proprietaries and medicated pastilles, etc., are superbly presented and highly competitive in every way and will appeal to salesmen with enterprise and ability. High commission and fullest support. Complete confidential details required in first instance, Box C 2995. first instance. Box C 2995.

PARKE, DAVIS & CO., LTD.
Advertising and Sales Promotion
Parke, Davis & Co., Ltd., invite applications from young pharmacists for a position in their advertising department, The tion in their advertising department, The post offers opportunity for participating in all aspects of advertising and sales promotion, in particular the compilation of ethical medical advertising literature from technical information provided, Generous pension plan, 5-day week, staff restaurant. Write in the first instance to:—

Personnel Manager,
Parke, Davis & Co., Ltd.,
Staines Road, Houslow, Middlesex,
C 9225

REPRESENTATIVE REQUIRED by well-known and expanding London pharmaceutical manufacturers, "Live" accounts with retail known and expanding London pharmaceutical manufacturers, "Live" accounts with retail trade in London essential and car preferable. Task will be to develop London postal districts not covered by two existing representatives. Attractive salary and commission to first-class man, Write giving age, experience and minimum salary required to Box C 9297. REQUIRED: A qualified assistant lady chemist for food and drug analysis in pleasant surroundings in Watford district, Apply stating all details and salary required to Box C 9276. PHARMACIST REQUIRED by old-established

PHARMACIST REQUIRED by old-established wholesale house, Lancashire, for management development bulk drug sales. Five-day week. Pension scheme Applicants invited give full details of experience, age and salary required to Box C 9272.

PHARMACEUTICAL CHEMIST with good qualifications, first-class experience and initiative required by well-known ethical manufacturers S.W. London. Duties include product formulation, laboratory control, abstracting medical literature, etc. Commencing salary £1,000-£1,500 p.a. according to experience and ability. Full particulars in confidence to: Box C 9236.

PHYSICAL CHEMIST, A group of international standing situated in the West London area require a graduate with a degree in chem-PHYSICAL CHEMIST. A group of international standing situated in the West London area require a graduate with a degree in chemistry or corporate membership of the R.I.C. to take charge of the physico-chemical instrument section of a laboratory handling a widerange of pharmaceutical products. Some knowledge of spectrophotometry, polarography, fluorimetry, chromatography, etc., and a flair for the application of these techniques to development problems, would be advantageous. Starting salary within the range £700-£1,100 according to qualifications and expérience, Pension and profit participation schemes' in operation, Write in confidence to Box C 9277.

PRICING CLERK, lady preferred, experienced in drugs, patents, etc. Excellent conditions; good salary. Apply with full particulars to Biorex Laboratories, Ltd., 47/51 Exmouth Market, E.C.1. Phone: Terminus 9494, C 9283 PRODUCTION PHARMACIST. A vacancy exists for a pharmacist to supervise the production activities of an established company in London marketing a comprehensive range of pharmaceutical preparations. The position is a responsible one and offers attractive prospects, Commencing salary will be commensurate with experience but will not be less than £850 a year. Applications giving age, qualifications, and experience to Box C 3015.

REPRESENTATIVE, Burroughs Wellcome & Co, have a vacancy for a medical representative in North-east London. Applicants, who must be pharmacists and should be about 30 years of age, must possess a good educational background and wide pharmaceutical Incoverience to position is not essential. The position is not essential. The position is not essential. The position is not essential.

years of age, must possess a good educational background and wide pharmaceutical knowledge. Previous experience as a representative, while an advantage, is not essential. The position is progressive and pensionable (contributory scheme). Applications (by letter only) will be treated in confidence, They should give full details of experience, etc., and be addressed to the Manager, Home Sales Division (Medical), Burroughs Wellcome & Co., 183/193 Euston Road, London, N.W.1. C 9293 REPRESENTATIVES — GENATOSAN, LTD., a member of the Fison Group, require a chemist's representative for the Liverpool district, including Southport, Wigan, St. Helens, Warrington. This is the result of promotion and reorganisation, Applicants must have pharmaceutical qualifications or background, or good selling experience. Successful applicant would be expected to reside on this territory. This post is well remunerated and superannuated. Applications in confidence must contain full details of age, education and experience, and be addressed to the Personnel Officer, Genatosan, Ltd., Loughborough, Leicestershire. Please quote Reference C/RL, C 9255

STAFFORD ALLEN & SONS, LTD. require a technical representative for the Food and Manufacturing Industries, Duties cover liaison on development work between customers and Head Office, Apply in writing stating age, qualifications and experience, etc., to Wharf Road, London, N.1. C 9227





Situations Vacant—Continued

TABLET COATER REQUIRED by well-known TABLET COATER REQUIRED by well-known company engaged in the production of all types of coated tablets. An experienced man is essential and salary will be commensurate with experience. Only first-class coaters need apply. Pension scheme, Five-day week. Canteen, Apply Box C 3013.

TABLET MAKER REQUIRED by progressive company producing all types of tablets, Experience in machine work, granulating, etc., is essential. Wages according to experience, Pension scheme, canteen, Five-day week, Apply Box C 3014.

UNQUALIFIED DISPENSER, male or female,

UNQUALIFIED DISPENSER, male or female, required by manufacturing chemists as assistant in stores, to assist in checking and control of raw materials, 40-hour week, Canteen facilities. Apply: Bayer Products, Ltd., 15 Central Ave., West Molesey, Surrey. C 9282 WOMAN PHARMACIST required for a permanent post in the dispensary, Five-day week. Pension and profit-sharing schemes, Apply in writing stating age, experience and salary required to the Staff Manager, The British Drug Houses, Ltd., Graham Street, City Road, N.1. C 9239

WORKS PHARMACIST, SOUTH WALES.
Opportunity occurs in manufacturing chemists operating in South Wales for the services of a pharmacist for the analytical and production control of its products. Position offers scope to pharmacist interested in supervision in manufacturing and wholesaling methods. Particulars to Box C 3012.

WHOLESALE (OVERSEAS)

NHOLESALE (OVERSEAS)

AMERICAN PHARMACEUTICAL HOUSE, New York area, requires Sales Supervisor for Asia, Middle East, and Europe, Unusual opportunity for man with strong background sale and promotion ethical pharmaceuticals and field experience above areas, Occasional travel. Write full details experience, education, age, salary required, to Box C 9210.

AGENTS WANTED

17/6 for 36 words (min.) then 4d. per word Box 2/-

Box 2/OLD-ESTABLISHED MANUFACTURERS of a small range of high-quality medicated confectionery will be interested to hear from agents or representatives calling upon chemists and drug stores in various parts of the United Kingdom, who would solicit orders for the above, Liberal commission. Box C 9275.
SALESMEN REQUIRED with established connections with chemists to sell range of first-class branded Hair Shampoos. Generous commission offered to good free-lance men, Write Box C 9298.

Box C 9298

SITUATIONS WANTED

3/- for 18 words (min.) then 2d, per word.

WHOLESALE

WHOLESALE

PHARMACIST with 20 years' comprehensive experience in all facets of the industry, including buying, production, packaging, sales (home and export) and administration, in all types of pharmaccutical materials, seeks a position where his knowledge and contacts can be used to advantage, All communications will be treated in strict confidence, Box C 2996, PHARMACIST with many years in all branches of wholesale and manufacturing trade requires temporary post for a few months, Any reasonable proposition will be considered. Write Box C 2997.

BOX C 2997.

REPRESENTATIVE with 12 years' experience on Welsh territory seeks change, Well-known, highly respected by chemists, doctors, hospitals. Box C 3000.

Box C 3000. WELL-KNOWN REPRESENTATIVE, estab-lished connection over twenty years among pharmacists in Surrey and Hampshire, seeks permanency Drugs, ethicals, counter requisites, sundries, Apply Box C 2994.

BUSINESS OPPORTUNITIES 17/6 for 36 words (min.) then 4d. per word Box 2/-

STRIP PACKED ASPIRIN TABLETS, B.P., 5 gr., Inquiries solicited, The Dales Tablet Makers, Ltd., Steeton, Yorkshire, C 185

CONCESSIONAIRE FOR BRITAIN wanted.

'Julia' Pine Needle Bath Balsam, containing
40 per cent, of purest volatile oils soluble in
water, has for 50 years enjoyed large sales
overseas, Its power to relieve bodily fatigue,
rheumatic pains, nerve and muscular aches is
known by doctors everywhere. Popularly priced,
attractively packed this is a best-seller, Important offers for supply in bulk or as required,
invited. Write Box C 3010.

FOR THE COMMON COLD, A new and
proven remedy for the common cold, a doctor's
discovery, is now available for manufacture,
under licence, in the British Isles. In tablet form,
taken at the onset, a running nose is checked
within one or two days; congestion instantly
relieved, Enquiries invited from firms offering
national distribution and advertising, Write,
Box C 3009.

FOR GREAT BRITAIN

FOR GREAT BRITAIN
The sole manufacturing and selling rights are offered to firm of high repute for:
THE MOST EFFECTIVE AND HANDLEST DRY-CLEANING AGENT FOR HOME USE,

now enjoying the largest sale in important overseas countries. Established firms with needful resources are invited to write: Box C 2969.

MANUFACTURING CHEMISTS with modern well-equipped factory have capacity for processing creams, emulsions and ointments to clients' own formulæ, Qualified pharmaceutical supervision and analytical control, Packaging facilities available if required, Applications will be treated in strict confidence. Apply Box C 9791

WANTED

17/6 for 36 words (min.) then 4d, per word Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New Collece Parade, Finchley Road, N.W.3, C 153 MANUFACTURER of pharmaceutical products requires 500 x 1 gall, serew-capped clear round glass bottles, Box C 9286, MEDICAL BOTTLES, tablet bottles, elosures and all types of packaging materials purchased, no quantity too large, Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4, Mansion House 3951-2, C 178 PAUL DANIELS, LTD., will purchase your redundant stocks of glass bottles, metal or bakelite screw caps and any goods for clearance, Phone: Amherst 8005 (3 lines) or write 13 Terrace Road, Hackney, E.9, For honesty and fairness try us, C 2988 WANTED: Zine skimmings and zinc residues lanoline B.P, Please submit samples, Apply Box C 9281.

C 9281

C 9281.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11.

Tel.: Bayswater 4020, 7692. C 140

MISCELLANEOUS SALES 17/6 for 36 words (min.) then 4d, per word Box 2/-

21 TONS Japanese titanium dioxide, 1 ton glycerine B.P., available for prompt delivery. Reply Box C 9273.

Reply Box C 2994.

Reply Box C 2973.

ASSORTED men's hair brushes at 1/11d, each plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or eash with order. Note of the plus postage (six, 7d.; doz., 11d.), c.o.d, or

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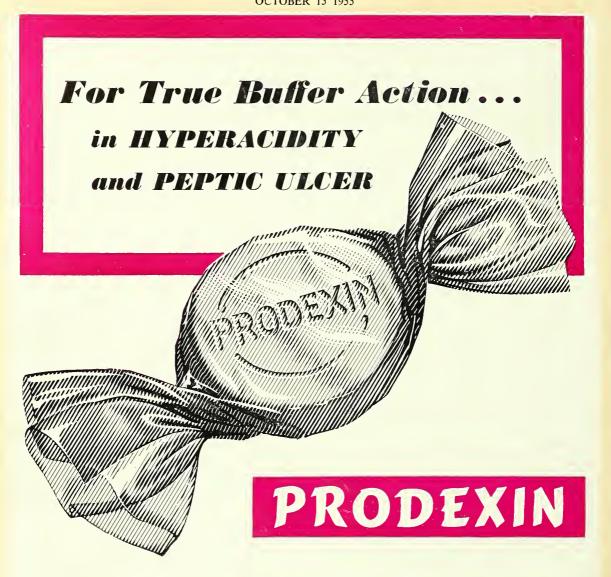
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